

MICROCORY RESOLUTION TEST CHART NATIONAL BUREAU DESTANDAMES - 1983 11

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DCN 87-212-027-27-01

INSTALLATION RESTORATION PROGRAM

PHASE II - CONFIRMATION/QUANTIFICATION

STAGE 1

FINAL REPORT
FOR
AIR FORCE PLANT 4
FORT WORTH, TEXAS

VOLUME 2. APPENDIX A-1



HEADQUARTERS AERONAUTICAL SYSTEMS DIVISION FACILITIES MANAGEMENT DIVISION (ASD/PMDA) WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433-6503

AND

HEADQUARTERS, AIR FORCE SYSTEMS COMMAND COMMAND BIOENVIRONMENTAL ENGINEER (AFSC/SGPB) ANDREWS AIR FORCE BASE, DC 20334-5000

DECEMBER 1987

PREPARED BY
RADIAN CORPORATION
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APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED

USAFOEHL TECHNICAL PROGRAM MANAGERS
MAJOR GEORGE R. NEW
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UNITED STATES AIR FORCE
OCCUPATIONAL & ENVIRONMENTAL HEALTH LABORATORY (USAFOEHL)
BROOKS AIR FORCE BASE. TEXAS 78235-5501

NOTICE

This report has been prepared for the United States Air Force by Radian Corporation, for the purpose of aiding in the implementation of the Air Force Installation Restoration Program. It is not an endorsement of any product. The views expressed herein are those of the contractor and do not necessarily reflect the official views of the publishing agency, the United States Air Force, nor the Department of Defense.

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APPENDIX A-1 Groundwater Analytical Data

Methyl ethyl ketone analysis was performed by Radian chromatography laboratory. The results of the analysis are in a memo included in this volume. All other samples for chemical analysis were submitted to Radian Analytical Services Laboratory. The samples were logged in, and the data reported in "batches". Each batch submitted was assigned a RAS work order number. Volume 2, Volume 3, and Volume 4, Appendix A-1 contain the analytical data reports for the various batches of samples. The bulk of data necessitated the results be bound in three volumes. Volume 2, Volume 3, and Volume 4, Appendix A-1 contain Tables A.1-1, A.1-3, and A.1-5, respectively, which are a sequential listing of the reports contained in that volume by batch number and Tables A.1-2, A.1-4, and A.1-6, respectively, which are a sample log and cross-reference table. These tables serve as a sample log and cross-references well numbers, OEHL numbers and the RAS work order numbers under which the results are located.

Pages in Appendix A are numbered by the volume number followed by the page number of that volume. For example, Page 2 001 is the first chemistry data page of Volume 2.



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TABLE A.1-1. INDEX OF ANALYTICAL REPORTS, BY WORK ORDER NUMBER

Volume 2	Volume 3	Volume 4
86-01-239	86-02-067	86-02-169
86-01-240	86-02-070	86-02-176
86-01-242	86-02-075	86-02-179
86-02-001	86-02-078	86-02-197
86-02-004	86-02-079	86-02-198
86-02-015	86-02-087	86-03-002
86-02-016	86-02-091	86-03-003
86-02-019	86-02-100	86-03-004
86-02-030	86-02-109	86-03-018
86-02-031	86-02-113	86-03-021
86-02-038	86-02-120	86-04-069
86-02-041	86-02-122	86-04-070
86-02-044	86-02-123	86-04-084
86-02-047	86-02-132	86-04-085
86-02-058	86-02-138	86-04-135
86-02-060	86-02-139	86-04-164
	86-02-152	86-07-086
	86-02-159	86-07-088
		86-07-095
		86-08-034
		86-08-058
		86-08-078
		86-08-092
		86-08-093
		86-08-094
		86-08-095
		86-08-096

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GPOUNDWATER AND SURFACE WATER SAMPLE LCS AND CROSS-REFERENCE TABLE TABLE A.1-2.

Well or Soil Boring Mumber	OBHL Number	Date Sampled	Analyses Performed	RAS Work Order Number	Date Extracted	Date Analyzed	Comments
НМ−2	860184	2/20/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-138 86-02-138 86-02-132 86-02-132	2/24/86 2/24/86	3/6/86 3/6/86	
HM-5	860152	2/12/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-139 86-02-075 86-02-075 86-02-078	2/13/86 2/13/86	2/27/86 2/27/86	
7—4	860162	2/13/86	Metals Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-079 86-02-087 86-02-087 86-02-091 86-02-091	2/17/86 2/17/86	3/5/86 3/5/86	
HM-8 HM-9	860161 860206	2/13/86 2/27/86	Metals Hydrocarbon Fuels Hydrogenated vols. (601) Armatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-087 86-02-087 86-02-197 86-02-198 86-02-198	3/3/86 3/3/86	3/13/86 3/13/86	
HM−1 0	860137	2/7/86	Metals Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-197 86-02-047 86-02-047 86-02-044 86-02-044	2/10/86 2/10/86	2/25/86 2/25/86	
HM−11	860146	2/10/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-04/ 86-02-060 86-02-060 86-02-058 86-02-058	2/12/86 2/12/86	2/26/86 2/26/86	
HM−12	860165	2/14/86	Metals Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) N & Acid Semi-vols. (625)	86-02-060 86-02-100 86-02-100 86-02-109 86-02-109	2/18/86 2/18/86	3/5/86 3/5/86	
HM−13	860178	2/19/86	Herais Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-100 86-02-120 86-02-120 86-02-122 86-02-122	2/20/86 2/20/86	3/5/86 3/5/86	
HH-14 HH-15	860177 860193	2/19/86 2/25/86	merais Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602)	86-02-120 86-02-120 86-02-159 86-02-159			

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	Comments									
	Date Analyzed	2/27/86 2/27/86	2/27/86 2/27/86	2/27/86 2/27/86		2/12/86 2/12/86	2/25/86 2/25/86	3/6/86 2/6/86	3/6/86	3/6/86
	Date Extracted	2/12/86 2/12/86	2/12/86 2/12/86	2/12/86 2/12/86		2/3/86 2/3/86	2/10/86 2/10/86	2/24/86 2/24/86	2/20/86	2/ 20/ 86
(Continued)	RAS Work Order Number	86-02-067 86-02-067 86-02-070 86-02-070 86-02-067	86-02-067 86-02-067 86-02-070 86-02-070	86-02-067 86-02-067 86-02-070 86-02-070	86-03-003 86-03-003 86-03-004 86-03-004	86-02-001 86-02-001 86-02-004 86-02-004	86-02-001 86-02-047 86-02-047 86-02-044 86-02-044	86-02-138 86-02-138 86-02-132 86-02-132	86-02-113 86-02-113 86-02-120 86-02-120 86-02-122	86-02-122 86-02-120 86-02-067
TABLE A.1-2. (C	Analyses Performed	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Motelly	Aromatic vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	Hydrogenated vols. (601) Aromatic vols. (602) Oil and Grease Hydrogether Field	Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	Metals Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	d Grease arbon Fuels enated vols. (6C ic vols. (602) ides & PCBs (608)	B/N & Acid Semi-vols. (625) Metals Hydrogenated vols. (601)
	Date Sampled	2/11/86	2/11/86	2/11/86	3/1/86	1/31/86	2/7/86	2/20/86	2/18/86	2/11/86
	OEHL Number	860147	860149	860150	860217	860109	860138	860181	860174	860148
	Well or Soil Boring Number	ни−16	HM-17	HM−18	НМ−19	НМ−20	HH−2.1	HM−22	HM-23 HM-24	HM-25



TABLE A.1-2. (Continued)

Well or Soil	OBHL	Date		RAS Work Order	Date	Date	
Boring Number	Number	Sampled	Analyses Performed	Number	Extracted	Analyzed	Comments
HM-26	860112	1/31/86	Halogenated vols. (601)	86-02-001			
			Aromatic vols. (602)	86-02-001			
			Pesticides & PCBs (608)	86-02-004	2/3/86	2/11/86	
			& PCBs (608)	86-02-016	2/4/86	2/14/86	Duplicate analysis
				86-02-004	2/3/86	2/11/86	
			B/N & Acid Semi-vols. (625)	86-02-016	2/4/86	2/14/86	Duplicate analysis
			Metals	86-02-001			
HM-27	860113	1/31/86	Halogenated vols. (601)	86-02-001			
			Aromatic vols. (602)	86-02-001			
			Pesticides & PCBs (608)	86-02-016	2/4/86	2/14/86	
			B/N & Acid Semi-vols. (625)	86-02-016	2/4/86	2/14/86	
			Metals	86-02-001			
HM-28	860132	2/6/86	Halogenated vols. (601)	86-02-041			
			Aromatic vols. (602)	86-02-041			
			Pesticides & PCBs (608)	86-02-038	2/10/86	2/24/86	
			B/N & Acid Semi-vols. (625)	86-02-038	2/10/86	2/24/86	
			Metals	86-02-041			
HM-28	860133	2/6/86	Pesticides and PCBs (608)	86-02-038	2/10/86	2/25/86	Duplicate of 860132
			B/N & Acid Semi-vol. (625)	86-05-038			
HM-29	860189	2/21/86	Hydrogenated vols. (601)	86-02-138			
			Aromatic vols. (602)	86-02-138			
			Pesticides & PCBs (608)	86-02-152	2/25/86	3/11/86	
			B/N & Acid Semi-vols. (625)	86-02-152	2/25/86	3/11/86	
			Metals	86-02-139			
			Oil and Grease	86-02-139			
			Hydrocarbon Fuels	86-02-139			
HM-30	860163	2/13/86	Hydrogenated vols. (601)	86-02-087			
			Aromatic vols. (602)	86-02-087			
			Pesticides & PCBs (608)	86-02-091	2/17/86	3/5/86	
			B/N & Acid Semi-vols. (625)	86-02-091	2/17/86	3/5/86	
			Metals	86-02-087			
HM-31	860166	2/14/86	Hydrogenated vols. (601)	86-02-100			
			Aromatic vols. (602)	86-02-100			
			Pesticides & PCBs (608)	86-02-109	2/18/86	3/5/86	
			B/N & Acid Semi-vols. (625)	86-02-109	2/18/86	3/5/86	
			Metals	86-02-100			
			Oil and Grease	86-02-100			
			Hydrocarbon Fuels	86-02-100			
HM-32	860164	2/14/86	Hydrogenated vols. (601)	86-02-100			
			Aromatic vols. (602)	86-02-100			
			Pesticides & PCBs (608)	86-02-109	2/18/86	3/5/86	
			B/N & Acid Semi-vols. (625)	86-02-109	2/18/86	3/5/86	
			Metals	86-02-100			
HM~33	860207	2/28/86	Hydrogenated vols. (601)	86-03-002			
			Aromatic vols. (602)	86-03-002			
			Uil and Grease	86-03-004			
			Hydrocarbon Fuels	86-03-004			



Boring Number Well or Soil

HM-33

HM-34

HM-34

	Comments	Duplicate of 860207	Duplicate of 860204						
	Date Analyzed	3/13/86 3/13/86	3/13/86 3/13/86	3/13/86 3/13/86	3/13/86 3/13/86	2/12/86 2/12/86	3/10/86 3/10/86	3/13/86 3/13/86 3/12/86 3/11/86	3/12/86 3/12/86
	Date Extracted	3/3/86 3/3/86	3/3/86 3/3/86	3/3/86 3/3/86	3/3/86 3/3/86	2/3/86 2/3/86	2/25/86 2/25/86	3/3/86 3/3/86 2/27/86 2/27/86	2/27/86 2/27/86
(Continued)	RAS Work Order Number	86-03-002 86-03-002 86-03-004 86-03-004 86-02-197 86-02-196 86-02-196 86-02-196	86-02-197 86-02-197 86-02-198 86-02-198 86-02-197	86-02-197 86-02-197 86-02-198 86-02-198 86-02-197	86-02-197 86-02-197 86-02-198 86-02-198 86-02-198	86-02-001 86-02-001 86-02-004 86-02-004 86-02-004	86-02-138 86-02-138 86-02-152 86-02-152 86-02-197 86-02-197	86-02-198 86-02-198 86-02-197 86-02-159 86-02-169 86-02-169	86-02-159 86-02-159 86-02-159 86-02-169 86-02-169
TABLE A.1-2.	Analyses Performed	Hydrogenated vols. (601) Aromatic vols. (602) Oil and Grease Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Marals	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Herals	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Marals	Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Marais	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Hydrogenated vols. (601) Aromatic vols. (602)	Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals
	Date Sampled	2/28/86	2/27/86	2/27/86	2/27/86	1/31/86	2/21/86	2/25/86	2/25/86
	OEHL Number	860208	860205	860203	860202	860114	860188	860194	860192

HM-41

HM-36

HM-37

HM-38

HM-39

HM-40

HM-35

Well or Soil Boring Number	OEHL Number	Date Sampled	Analyses Performed	RAS Work Order Number	Date Extracted	Date Analyzed	Comments
нм-42	860183	2/20/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-138 86-02-138 86-02-132 86-02-132	2/24/86 2/24/86	3/9/86 3/6/86	
НМ-43	860182	2/20/86	Hydrogenated vols. (601) Aromatic vols. (602) Pasticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-138 86-02-138 86-02-138 86-02-132 86-02-132	2/24/86 2/24/86	3/6/86 3/6/86	
НМ- 44	860190	2/25/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-159 86-02-159 86-02-159 86-02-169 86-02-169	2/27/86 2/20/86	3/12/86 3/12/86	
HM-45	860191	2/25/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-159 86-02-159 86-02-169 86-02-169 86-02-169	2/27/86 2/27/86	3/12/86 3/12/86	
н м -46	860185	2/20/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals	86-02-138 86-02-138 86-02-132 86-02-132 86-02-139	2/24/86 2/24/86	3/6/86 3/6/68	
HM-47	860130	2/6/86	Halogenated vols. (601) Aromatic vols. (602) Metals Oil and Grease Hydrocarbon Fuels	86-02-041 86-02-041 86-02-041 86-02-041 86-02-041			
НМ-47	860131	2/6/86	Halogenated vols. (601) Aromatic vols. (602) Metals Oil and Grease Hydrocarbon Fuels	£6-02-041 86-02-041 86-02-041 86-02-041 86-02-041			Duplicate of 860130
Н м -48	860167	2/14/86 2/12/86	Hydrogenated vols. (601) Aromatic vols. (602) Chromium Hydrogenated vols. (601) Aromatic vols. (602) Oil and Grease Hydrogarhon Fuels	86-02-100 86-02-100 86-02-100 86-02-075 86-02-075 86-02-079			
HM-50	860157	2/12/86	Hdyrogenated vols. (601) Aromatic vols. (602) Oil and Grease Hydrocarbon Fuels	86-02-075 86-02-075 86-02-079 86-02-079			



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TABI.F

HM-51 860151 2 HM-52 860141 2 HM-52 860142 2 HM-53 860145 2 HM-53 860145 2	Sampled 2/11/86 2/10/86	Analyses Performed	Number	Extracted	Analyzed	Comments	
860141 860142 860145 860145	2/11/86 2/10/86						,
860141 860142 860145 860143	2/10/86	(107) -1	1,50,00				
860141 860142 860145 860143	2/10/86	Hydrogenated Vols. (bul)	790-70-09				
860141 860142 860145 860145	2/10/86	Aromatic vols. (602)	86-02-06/				
860141 860142 860145 860145	2/10/86	Oil and Grease	86-02-067				
860141 860142 860145 860145	2/10/86	Hydrocarbon Fuels	86-02-067				
860142 860145 860143		Halogenated vols. (601)	86-02-060				
860142 860145 860143		Aromatic vols. (602)	86-02-060	,			
860142 860145 860143		Pesticides & PCBs (608)	86-02-058	2/12/86	2/26/86		
860142 860145 860143		B/N & Acid Semi-vols. (625)	86-02-058	2/12/86	2/26/86		
860142 860145 860143		Metals	86-02-060				
860142 860145 860143		Oil and Grease	86-02-060				
860142 860145 860143		Hydrocarbon Fuels	86-02-060				
860145	2/10/86	Halogenated vols. (601)	86-02-060			Duplicate of 860141	
860145		Aromatic vols. (602)	86-02-060				
860145 860143		Metals	86-02-060				
860145 860143		Oil and Grease	86-02-060				
860145 860143		Hydrocarbon Fuels	86-02-060				
860143	2/10/86	Hydrocarbon Fuels	86-02-060				
	2/10/86	Halogenated vols. (601)	86-02-060				
		Aromatic vola: (602)	86-02-060				
		Peaticides & PCBs (608)	86-02-058	2/12/86	2/26/86		
		B/N & Acid Semi-vola (625)	86-02-058	2/12/86	2/26/86		
		Metals	86-02-060	20 /21 /2	20 (27 /7		
		Oil and Greage	86-02-060				
		Hydrocarbon Ruels	86-02-060				
HM-54 860144 2	2/10/86	Pesticides and PCBs (608)	86-02-058	2/12/86	2/26/86	Duplicate of 860143	
		B/N & Acid Semi-vols. (625)	86-02-058	2/12/86	2/26/86		
HM-55 860119 2	2/4/86	Hydrocarbon Fuels	86-02-123	ì			
	:	Oil and Grease	86-02-019				
HM-56 860186 2	2/21/86	Hydrogenated vols. (601)	86-02-138				
		Aromatic vols. (602)	86-02-138				
		Pesticides & PCBs (608)	86-02-152	2/25/86	3/10/86		
		B/N & Acid Semi-vols. (625)	86-02-152	2/25/86	3/10/86		
		Metals	86-02-139				
		Hydrocarbon Fuels	86-02-139				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Purgeables (624)	86-02-152				
!IM-57 860200 2	2/26/86	Hydrogenated vols. (601)	86-02-176				
		Aromatic vols. (602)	86-02-176				
		Pesticides & PCBs (608)	86-02-179	2/28/86	3/12/86		
		B/N & Acid Semi-vols. (625)	86-02-179	2/28/86	3/12/86		
		Metals	86-02-176				
		Oil and Grease	86-02-176				
	,	Hydrocarbon Fuels	86-02-176				
HM-58 860195 2	2/26/86	Hydrogenated vols. (601)	86-02-176				
		Aromatic vols. (602)	86-02-176				
		Pesticides & PCBs (608)	86-02-179	2/28/86	3/12/86		
		B/N & Acid Semi-vols. (625)	86-02-179	2/28/86	3/12/86		
		Metals	86-02-176				
		Oil and Grease	86-02-176				
		Hydrocarbon Fuels	86-02-176				

Well or Soil Boring Number	OBHL Number	Date Sampled	Analyses Performed	RAS Work Order Number	Date Extracted	Date Analyzed	Comments
HM-58	860196	2/26/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-176 86-02-176 86-02-179 86-02-179			Duplicate of 860195
HM−59	860113	2/3/86	Hetals Oil and Grease Hydrocarbon Fuels Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Macals	86-02-176 86-02-176 86-02-015 86-02-015 86-02-016 86-02-016	2/4/86 2/4/86	2/14/86 2/14/86	
нм-60	860134	2/6/86	Oil and Grease Hydrocarbon Fuels Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608)	86-02-015 86-02-015 86-02-041 86-02-041 86-02-041	2/10/86	2/25/86	
HM-61	860198	2/26/86	Metals Hydrogenated vols. (601) Aromatic vols. (602) Metals Oil and Grease	86-02-036 86-02-041 86-02-176 86-02-176 86-02-176	00 /01 /7	00 (77 /7	
нм-62	860216	3/1/86	Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi~vols. (625)	86-02-176 86-03-003 86-03-003 86-03-021 86-03-021	3/5/86 3/5/86	3/24/86 3/24/86	
НМ−63	860138	2/7/86	Metals Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-03-004 86-02-047 86-02-047 86-02-044 86-02-044	2/10/86 2/10/86	2/25/86 2/25/86	
НМ−64	860197	2/26/86	Metals Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Grease	86-02-04/ 86-02-176 86-02-176 86-02-179 86-02-179 86-02-176	2/28/86 2/28/86	3/12/86 3/12/86	
HM-65	860158	2/12/86	Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Oil and Grease	86-02-176 86-02-075 86-02-075 86-02-079			

	Comments				Duplicate of 860179				
	Date Analyzed	3/24/86 3/24/86				2/14/86 2/14/86			
<u> </u>	Date Extracted	3/6/86				2/4/86 2/4/86			
(Continued)	RAS Work Order Number	86-02-087 86-02-087 86-02-087 86-02-087 86-03-002 86-03-018	86-03-004 86-03-004 86-03-004 86-02-138 86-02-139 86-02-139	86-02-139 86-02-120 86-02-120 86-02-120 86-02-120	86-02-120 86-02-120 86-02-120 86-02-120 86-02-120 86-02-120	86-02-015 86-02-016 86-02-016 86-02-015 86-02-015 86-02-015	86-02-100 86-02-100 9/8/86 memo 86-02-176	86-02-176 9/8/86 memo 86-02-031	80-02-031 9/8/86 memo
TABLE A.1-2.	Analyses Performed	Hydrogenated vols. (601) Aromatic vols. (602) Oil and Grease Hydrocarbon Puels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	Metals Oil and Grease Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Metals Oil and Grease	Hydrogenated vols. (601) Aromatic vols. (602) Metals Oil and Grasse Hydrocarbon Puels	Hydrogenated vols. (601) Aromatic vols. (602) Metals Oil and Grease Hydrocarbon Puels Halogenated vols. (601)	Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Grease Hydrocarbon Puels	Oil and Grease Mylene Methyl ethyl ketone Oil and Grease	Xylene Methyl ethyl ketone Oil and Grease	Aylene Methyl ethyl ketone
	Date Sampled	2/13/86	2/21/86	2/19/86	2/19/86		2/14/86 2/26/86	2/5/86	
	OEHL Number	860159	860187	860179	860180		860168	860129	
	Well or Soil Boring Number	44-68 14-68	69-ин	HM-70	HM-70 HM-71		HM-72 HM-73	HM-74	



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	Comments								
	Date Analyzed		2/25/86 2/25/86		2/14/86 2/14/86		2/25/86 2/25/86	2/16/86 2/16/86	
	Date Extracted		2/10/86 2/10/86		2/4/86 2/4/86		2/10/86 2/10/86	2/6/86 2/6/86	
(Continued)	RAS Work Order Number	86-02-087 86-02-087 86-02-087	86-02-087 86-02-041 86-02-041 86-02-038 86-02-038	86-02-041 86-02-100 86-02-100 86-02-031 86-02-031	86-02-031 86-02-015 86-02-015 86-02-016 86-02-016	86-02-015 86-02-015 86-02-031 86-02-031	86-02-047 86-02-047 86-02-044 86-02-044 86-02-047	86-02-04/ 86-02-019 86-02-019 86-02-030 86-02-030 86-02-019	86-08-034 86-08-034 86-08-034 86-08-034 86-08-035 86-08-095 86-08-095 86-08-096 86-08-096
TABLE A.1-2. (Analyses Performed	Hydrogenated vols. (601) Aromatic vols. (602) Oil and Grease	Hydrocarbon Fuels Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B.N & Acid Semi-vols. (625)	retais Oil and Grease Hydrocarbon Fuels Halogenated vols. (601)	Hydrocarbon Fuels Halogensted vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals	Oil and Grease Hydrocarbon Fuels Halogenated vols. (601) Aromatic vols. (602)	nyulocarbon fuels Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Grease	Hydrocarbon Fuels Halogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Grease	Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Gresse Hydrocarbon Fuels Alpha Beta Gamma
	Date Sampled	2/13/86	2/6/86	2/5/86	2/3/86	2/5/86	2/1/86	2/4/86	8/21/86
	OEHL Number	860160	860135	860127	860117	860128	860140	860121	860258
	Well or Soil Boring Number	HH-76	HM-77	HM-78	нн-79	HH-80	HM-81	НМ−82	HM-83

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TABLE

			TABLE A.1-2.	(Continued)	(1		
Well or Soil Boring Number	OEHL. Number	Date Sampled	Analyses Performed	RAS Work Order Number	Date Extracted	Date Analyzed	Comments
HM-84	860261	8/21/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Grease Hydrocarbon Fuels Alpha Beta	86-08-093 86-08-093 86-08-034 86-08-034 86-08-095 86-08-095 86-08-095 86-08-095 86-08-095			
HM-85	860259	8/21/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Gresse Hydrocarbon Fuels Alpha Beta	86-08-093 86-08-093 86-08-034 86-08-095 86-08-095 86-08-095 86-08-095 86-08-095 86-08-095			
HM-85 HH-100	860260 860226 860226	8/21/86	ides & PCBs (Acid Semi-vol	86-08-034 86-08-034 86-08-035 86-08-096 86-08-096 86-08-096 86-08-064			Duplicate of 860259
HM-102 HM-102 HM-103	860220	4/18/86	Hydrogenated vols. Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Hydrogenated vols. (601) Aromatic vols. (602) Oil and Gresse Hydrocarbon Fuels Hydrogenated vols. (601)	86-04-184 86-04-135 86-04-135 86-04-164 86-04-164 86-04-069 86-04-069 86-04-069 86-04-069	4/23/86 4/23/86	4/28/86	

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Well or Soil Boring Number	OEHL Number	Date Sampled	Analyses Performed	RAS Work Order Number	Date Extracted	Date Analyzed	Comments
HM-104	860222	4/10/86	Hydrogenated vols. (601) Aromatic vols. (602) Metals Oil and Grease	86-04-084 86-04-084 86-04-084 86-04-084			
HM-105	860230	8/19/86	Hydrocarbon Fuels Oil and Grease	86-04-084 86-08-078			
HH-107	860229	4/19/86	nydrocarbon ruels Oil and Grease Wydrocarbon Ruels	86-08-078 86-08-078			
HM-108	860256	8/20/86	injurocarbon ruess Oil and Grease Hydrocarbon Ruels	86-08-094			
P-1	860126	2/6/86	indicated in the Halogenated vols. (601) Aromatic vols. (602)	86-02-041 86-02-041			
			Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-038 86-02-038	2/10/86 2/10/86	2/24/86 2/24/86	
P-2	860175	2/19/86	Metals Hydrogenated vols. (601)	86-02-041 86-02-120 86-03-120			
			Acides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-122 86-02-122 86-02-122	2/20/86	3/6/86	
P-3	860123	2/4/86	Metals Halogenated vols. (601)	86-02-120 86-02-019			
			Aromatic vols. (602) Pesticides & PCBs (608)	86-02-019 86-02-030	2/6/86	2/16/86	
			D/N & Acid Semi-Vols. (623) Oil and Grease	86-02-030	99 /9 /7	7/ 18/ 80	
P-4	860108	1/30/86	Halogenated vols. (601)	86-02-019			
			Aromatic Vols. (002) Pesticides & PCBs (608)	86-01-242	1/31/86	2/11/86	
P-5u	860111	1/31/86	B/N & Acid Semi-vols. (625) Halogensted vols. (601)	86-01-242 86-02-001	1/31/86	2/11/86	
l k			Aromatic vols. (602)	86-02-001	7/3/06	2/11/86	
			Februaries of Fobs (000) B/N & Acid Semi-vols. (625)	86-02-004	2/3/86	2/11/86	
			Metals	86-02-001			
			Oll and crase Hydrocarbon Fuels	86-02-001			
P-5m	860110	1/31/86	Halogenated vols. (601)	86-02-001			
			Aromatic vols. (602) Pesticides & PCBs (608)	26-02-001 36-02-004	2/3/86	2/11/86	
			B/N & Acid Semi-vols. (625)	86-02-004	2/3/86	2/11/86	
			Metals	86-02-001			
			Ull and crease Hydrocarbon Fuels	86-02-001			
Pfii	860122	2/5/86	Hydrocarbon Fuels	86-02-123			



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Well or Soil Boring Number	OEHL Number	Date Sampled	Analyses Performed	Order Number	Date Extracted	Date Analyzed	Comments
P-6m	860118	2/4/86	Hydrocarbon Fuels	86-02-123			
P-7u	860104	1/30/86	Ull and Grease Halogenated vols. (601)	86-01-239			
			Aromatic Vols. (602) Pesticides & PCBs (608)	86-01-239 86-01-242	1/31/86	2/11/86	
			B/N & Acid Semi-vols. (625)	86-01-242	1/31/86	2/11/86	
P-7m	860103	1/30/86	Metals Halogenated vols. (601)	86-01-240 86-01-239			
!			Aromatic vols. (602)	86-01-239			
			Pesticides & PCBs (608)	86-01-242	1/31/86	2/7/86	
			B/N & Acid Semi-vols. (625)	86-01-242	1/31/86	2/1/86	
P-8u	860136	2/7/86	Metals Halogenated vols. (601)	86-01-240			
}) 	•	Arometic vols. (602)	86-02-047			
			Pesticides & PCBs (608)	86-02-044	2/10/86	2/25/86	
			B/N & Acid Semi-vols. (625)	86-02-044	2/10/86	2/24/86	
			Metals	86-02-047			
			Understand Grease	80-02-04/			
P-8m	860120	2/4/86	nydrocarbon ruels Halogenated vols. (601)	86-02-04/			
		•	Aromatic vols. (602)	86-02-019			
			Pesticides & PCBs (608)	86-02-030	2/6/86	2/16/86	
			B/N & Acid Semi-vols. (625)	86-02-030	2/6/86	2/16/86	
			Metals	86-02-019			
			Undercombon Winds	86-02-019			
P-9u	860125	2/5/86	Halogenated vols. (601)	86-02-013			
		•	Aromatic vols. (602)	86-02-031			
			Pesticides & PCBs (608)	86-02-030	2/6/86	2/16/86	
			B/N & Acid Semi-vols. (625)	86-02-030	2/6/86	2/16/86	
			Metals	86-02-031			
			Undroathon Whale	86-02-031			
- d	860124	2/5/86	Halosepared volg. (601)	86-02-031			
1		i	Aromatic vols. (602)	86-02-031			
			Pesticides & PCBs (608)	86-02-030	2/6/86	2/16/86	
			B/N & Acid Semi-vols. (625)	86-02-030	2/6/86	2/21/86	
			Metals	86-02-031			
			Oil and Grease	86-02-031			
			Hydrocarbon Fuels	86-02-031			
P-101	860169	2/14/86	Metals Hydrosenated vols. (601)	86-01-240			
,) : :	Aromatic vols. (602)	86-02-113			
			Pesticides & PCBs (608)	86-02-116	2/24/86	3/6/86	
			B/N & Acid Semi-vols. (625)	86-02-116	2/24/86	3/6/86	
			Metals	86-02-113			
			Oil and Grease	86-02-113			
			Hydrocarbon Fuels	611-70-08			

Well or Soil Boring Number	ORHL Number	Date Sampled	Analyses Performed	RAS Work Order Number	Date Extracted	Date Analyzed	Comments
P-10u	860172	2/18/86	Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-113 86-02-113 86-02-116 86-02-116	2/20/86 2/20/86	3/7/86 3/7/86	Duplicate of 860169
P-10m	860170	2/18/86	Metals Oil and Grease Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-02-113 86-02-113 86-02-113 86-02-113 86-02-115 86-02-116	2/24/86 2/24/86	3/4/86 3/6/86	
P-10m	860171	2/18/86	Metals Oil and Grease Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608)	86-02-113 86-02-113 86-02-113 86-02-113 86-02-116	2/24/86	3/6/86	Duplicate of 860170
P-11u	860210	2/28/86	Metals Metals Oil and Grease Hydrogenated vols. (601) Aromatic vols. (601) Pesticides & PCBs (608)	86-02-113 86-02-113 86-02-113 86-03-002 86-03-002	3/9/86	3/0/60	
P-11m	860212	2/28/86	b/N & Acid Semi-Vols. (025) Metals Oil and Gresse Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-Vols. (625)	86-03-004 86-03-004 86-03-004 86-03-004 86-03-002 86-03-018 86-03-018	3/6/86 3/6/86 3/6/86	3/24/80 3/24/86 3/24/86	
P-11m	860211	2/28/86	Metals Oil and Grease Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-03-004 86-03-004 86-03-004 86-03-002 86-03-002 86-03-018	3/6/86 3/6/86	3/24/86 3/24/86	Duplicate of 860212
P-12u	860213	3/1/86	Metals Oil and Grease Hydrocarbon Fuels Hydrogenated vols. (601) Aromatic vols. (602) Pesticides & PCBs (608) B/N & Acid Semi-vols. (625) Metals Oil and Grease Hydrocarbon Fuels	86-03-004 86-03-004 86-03-004 86-03-003 86-03-003 86-03-004 86-03-004 86-03-004	3/5/86	3/24/86	

TABLE A.1-2. (Continued)

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Boring Number	Number	Sampled	Analyses Performed	Number	Extracted	Analyzed	Counsents
P-12m	860214	3/1/86	Hydrogenated vols. (601)	86-03-003			
			Aromatic vols. (602)	86-03-003			
			Pesticides & PCBs (608)	86-03-021	3/5/86	3/24/86	
			D/N & ACIG DEBI-VOLE: (022)	86-03-021	3/ 3/ 80	2/ 74/ 90	
			Oil and Grease	86-03-004			
			Hydrocarbon Fuels	86-03-004			
P-12m	860215	3/1/86	Hydrogenated vols. (601)	86-03-003			Duplicate of 860214
			Aromatic vols. (602)	86-03-003			
			Pesticides & PCBs (608)	86-03-021	3/5/86	3/24/86	
			B/N & Acid Semi-vols. (625)	86-03-021	3/5/86	3/24/86	
			Metals Oil and Greese	86-03-004 86-03-004			
			Hydrocarbon Fuels	86-03-004			
P-20m	860218	98/6/4	Hydrogenated vols. (601)	86-04-069			
			Aromatic vols. (602)	86-04-069			
			Pesticides & PCBs (608)	86-04-070	4/10/86	4/23/86	
			B/N & Acid Semi-vols. (625)	86-04-070	4/10/86	4/23/86	
	010030	70/07	Metals	86-04-069			Direct 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
r~20m	800219	4/ 3/ 80	Hydrogenated Vols. (bul)	80-104-089			Duplicate of 600218
			Arometic Vols. (602) Pasticidas & PCRs (608)	86-04-029	4/10/86	4/23/86	
			B/N & Acid Semi-vola (625)	86-04-070	4/10/86	4/23/86	
			Metals	86-04-069			
P-21u	860221	4/10/86	Hydrogenated vols. (601)	86-04-084			
			Aromatic vols. (602)	86-04-084			
			Pesticides & PCBs (608)	86-04-085	4/14/86	4/24/86	
			B/N & Acid Semi-vols. (625)	86-04-085	4/14/86	4/54/86	
			Metals	86-04-084			
P-22u	860223	4/10/86	Hydrogenated vols. (601)	86-04-084			
			Archaels Vols. (602) Proficial form (609)	96-04-099 PA-04-04-0	4/14/86	4/22/86	
			B/N & Acid Semi-vols. (625)	86-04-085	4/14/86	4/22/86	
			Metals	86-04-084			
P-23u	860225	4/8/86	Hydrogenated vols. (601)	86-04-164			
			Arometic vols. (602)	80-04-104	98/66/7	48/96/4	
			B/N & Acid Semi-vole: (625)	86-04-135	4/23/86	4/28/86	
			Metals	86-04-164			
P-23u	860257	8/21/86	Hydrogenated vols. (601)	86-08-093			
			Aromatic vols. (602)	86-08-093			
			Pesticides & PCBs (608)	86-08-034			
			B/N & Acid Semi-vols. (625)	86-08-034			
		30, 00, 0	Metals	86-08-095			
C-1	80100	1/29/86	Halogenated vols. (bul)	86-01-239			
			Pasticides & PCBs (608)	86-01-242	1/31/86	2/1/86	
			B/N & Acid Semi-vols. (625)	86-01-242	1/31/86	2/7/86	
			Metals	86-01-240			



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Hell or Soil	ORHI.	Date		CAS WOLK	Date	Date		
Boring Number	Number	Sampled	Analyses Performed	Number	Extracted	Analyzed	Comments	inte
C-2	860102	1/29/86	Halogenated vols. (601) Aromatic vols. (602)	86-01-239 86-01-239				
			Pesticides & PCBs (608) B/N & Acid Semi-vols. (625)	86-01-242 86-01-242	1/31/86 1/31/86	2/7/86 2/7/86		
•	30.030	207007.	Metals	86-01-240				
F-3	800105	1/30/80	Malogenated vols. (601) Aromatic vols. (602)	86-01-239				
			Pesticides & PCBs (608)	86-01-242	1/31/86	2/11/86		
			Metals	86-01-240	1/31/00	09 /11 /7		
C-4	860107	1/30/86	Halogenated vols. (601)	86-01-239				
			Aromatic vols. (602)	86-01-239	2011011			
			Festicides & Pubs (008) B/N & Acid Semi-vola, (625)	86-01-242	1/31/86			
			Metals	86-01-240				
C-5	860101	1/29/86	Halogensted vols. (601)	86-01-239				
			Aromatic vols. (602)	86-01-239	, , , , ,	, , ,		
			Pesticides & PCBs (608)	86-01-242	1/31/86	2/7/86		
			B/N & Acid Semi-vols. (625)	86-01-242	1/31/80	7/ // 80		
aces quest	960106	1/30/86	Metals	86-01-240				
daac vaar	001000	00/00/1	Archatic wols (602)	86-01-239				
			Pesticides & PCBs (608)	86-01-242	1/31/86	2/1/86		
			B/N & Acid Semi-vols. (625)	86-01-242	1/31/86	2/1/86		
			Metals	86-01-240				
Drain Pipe	860153	2/12/86	Hydrogenated vols. (601)	86-02-075				
			Aromatic vols. (602)	86-02-075	20/12/06	70/10/		
			resticides & Pubs (505)	970-70-98	2/13/80	98/1/7		
			D/N & ACIU Semi-Vois. (023) Metals	86-02-078	00 /51 /7	00/17/7		
French Drain 1	860154	2/12/86	Hydrogenated vols. (601)	86-02-075				
			Aromatic vols. (602)	86-02-075				
			Pesticides & PCBs (608)	86-02-078	2/13/86	2/28/86		
			B/N & Acid Semi-vols. (625)	86-02-078	2/13/86	2/28/86		
			Metals	86-02-079				
French Drain 2	860155	2/12/86	Hydrogenated vols. (601)	86-02-085				
			Aromatic vols. (602)	86-02-075	,0,0,0	, , ,		
			Pesticides & PCBs (608)	870-77-08	2/13/80	98/87/7		
			B/N & Acid Semi-vols. (625)	86-02-078	7/ 13/ 80	09 /97 /7		
Outfall #1	860246	8/20/86	Hetais Hydrosenated vols. (601)	86-08-092			(1030)	
	1		Aromatic vols. (602)	86-08-092				
			Oil and Grease	86-08-094				
			Hydrocarbon Fuels	86-08-094				
Outfall #1	860247	8/20/86	Hydrogenated vols. (601)	86-08-092			(1130)	
			Aromatic vols. (602)	86-08-092				
			Oil and Grease	86-08-094				



	Comments	(1230)		(1330)					(1530)			(1630)			(1730)		Composite (1030-1730)			(1730) Duplicate of 860254			(0830)	(Composite 0930-0530)		(1130)	(1230)		(1330)	(1430)	(1530)		(1630)	(1730)
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LAB # 86-01-239

02/20/86 16: 50: 41	PREPARED Radian Analytical Services BY 8501 MoPac Blvd. P. D. Box 9948	ATTEN AUStin, Texas 78766	PHUNE (312) 434-4/9/	
RECEIVED: 01/31/86 02/20	REPORT Radian TO B1 4 Austin	Larry French	CLIENT PLANT4 COMPANY Plant 4	Carswell AFB (Gen. Dunamics)
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* Indicates a value less than 5 times the detection Potential error for such low values ranges between Footnotes and Comments 50 and 100%

specific matrix was not within acceptable limits indicating e Indicates that spike recovery for this analysis on the

an interferent present.

SAMPLE IDENIIFICATION

Analytical Serv TEST CODE	70 5	Serv	TEST	TEST CODES and	and	NAMES	used	6	this
SC 502 FPA Method 501/60	1 0	Metho	600	رور (۱		1			

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REPORT Results by Sample Analytical Serv

LAB # 86-01-239

SAMPLE 1D 860100

FRACTION OIA TEST CODE GC 601 Date & Time Collected 01/29/86

NAME EPA Method 601/60 Category

> DATA FILE CONC

9 SCAN

DATE INJECTED 01/31/86

ANALYST INSTRUMENT

E

COMPOUND

VERIFIED BY COMPOUNDS DETECTED

일

FACTOR

COMPOUND

Chloromethane

2

2

Bromomethane

2

Vinyl Chloride

밁

Chloroethane

SCAN

RESULT

Dibromoch loromethane

밀

Trichloroethene

S

RESULT

1, 1, 2-Trichloroethane

2

cis-1, 3-Dichloropropene

2

ĝ 2-Chloroethylvinyl Ether 2

Bromoform

밀 1, 1, 2, 2-Tetrachloroethane

밁

1, 1-Dichloroethene

2

1, 1-Dichloroethane

2

trans-1, 2-Dichloroethene

2

Chloroform

2

Trichlorofluoromethane

S

Methylene Chloride

2 Tetrachloroethylene

Chlorobenzene

일 1, 3-Dichlorobenzene

2

문 1, 2-Dichlorobenzene 2 1, 4-Dichlorobenzene

밁

1, 1, 1-Trichloroethane

Carbon Tetrachloride

밁

1,2-Dichloroethane

2

Bromodichloromethane

욷

1,2-Dichloropropane

2

밁

trans-1, 3-Dichloropropene

PAGE 3 RECEIVED: 01/31/86

Analytical Serv REPORT Results by Sample

LAB # 86-01-239 Continued From Above

SAMPLE ID 860100

860100

FRACTION OIA TEST CODE GC 601 Date & Time Collected 01/29/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT

ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). *Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in_

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COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 602/60 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene LAB # 86-01-239 Category COMPOUND FRACTION OIC TEST CODE GC 602 Date & Time Collected 01/29/86 ANALYST INSTRUMENT SCAN Results by Sample DATE INJECTED 02/03/86 2 2 2 밁 RESUL T Analytical Serv Ethyl Benzene Chlorobenzene COMPOUND Benzene Toluene PAGE 4 RECEIVED: 01/31/86 SAMPLE 1D 860100 DATA FILE CONC. FACTOR SCAN 004

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AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram.

ug/L unless otherwise specified All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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COMPOUNDS DETECTED VERIFIED BY Trichloroethene Bromoform Chlorobenzene 2-Chloroethylvinyl Ether 1, 3-Dichlorobenzene 1,2-Dichlorobenzene 1, 4-Dichlorobenzene NAME EPA Method 601/GC cis-1, 3-Dichloropropene Dibromoch loromethane 1, 1, 2-Trichloroethane 1, 1, 2, 2-Tetrachloroethane **Tetrachloroethylene** LAB # 86-01-239 Category COMPOUND 되 FRACTION 02A TEST CODE GC 601 Date & Time Collected 01/29/86 INSTRUMENT ANALYST SCAN REPORT Results by Sample DATE INJECTED 01/31/86 2 2 S 9 2 1.57 밁 2 밁 7. 11 9 9 밁 RESULT Analytical Serv Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1, 1-Dichloroethene 1, 1-Dichloroethane trans-1, 2-Dichloroethene Chloroform 1, 2-Dichloroethane 1, 1, 1-Trichloroethane Carbon Tetrachloride COMPOUND Ġ PAGE 5 RECEIVED: 01/31/86 SAMPLE 1D 860102 DATA FILE CONC. FACTOR SCAN 005 2

0, 25

RESULT

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밀

밁

9

2

밁

2

0.07

Z

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2

일

trans-1,3-Dichloropropene

밁

Bromodichloromethane

2

1,2-Dichloropropane

밁

PAGE 6 RECEIVED: 01/31/86

Analytical Serv Results by Sample

LAB # 86-01-239 Continued From Above

SAMPLE 1D 860102

FRACTION OZA TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 01/29/86

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in <u>ug/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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LAB # 86-01-239

REPORT

Analytical Serv

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בים בים כים בים בים בים בים בים בים בים בים בים ב	NAME EPA Method 602/GC Category	MCL VERIFIED BY d COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
Sample	ACTION O2C TEST CODE GC 602 te & Time Collected 01/29/86	ANALYST	SCAN					
Results by Sample	ACTION O2C	DATE INJECTED 02/03/86	RESULT	GN.	Q	Q	Q	
	FR	DATE INJEC	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
RECEIVED: 01/31/86	SAMPLE ID 860102	DATA FILE CONC. FACTOR	SCAN		0.07			
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NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

All results reported in

All results reported in <u>ug/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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Results by Sample Analytical Serv

REPORT

LAB # 86-01-239

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NAME EPA Method 601/GC Category FRACTION 03A TEST CODE GC 601 Date & Time Collected 01/30/86 **SAMPLE ID 860105**

ACP NO VERIFIED BY COMPOUNDS DETECTED RP **ANALYST** INSTRUMENT SCAN DATE INJECTED 01/31/86 RESULT COMPOUND 0 DATA FILE CONC. FACTOR SCAN

ᄝ

Chloromethane

皇

Bromomethane

밁

Vinyl Chloride

2

Chloroethane

밁

Methylene Chloride

밁

Trichlorofluoromethane

밁

1, 1-Dichloroethene

윋

1, 1-Dichloroethane

5.84

trans-1, 2-Dichloroethene

밁

Chloraform

밁

1, 2-Dichloroethane

밁

0.73 RESULT Trichloroethene Dibromoch loromethane COMPOUND

밁 1, 1, 2-Trichloroethane

밁

S cis-1, 3-Dichloropropene

일

2-Chloroethylvinyl Ether

2

Bromoform

2 밀 Tetrachloroethylene 1, 1, 2, 2-Tetrachloroethane

Chlorobenzene

9

밀 2 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene

1, 4-Bichlorobenzene

일

밁 Bromodichloromethane

윋

Carbon Tetrachloride

1, 1, 1-Trichloroethane

밁 1, 2-Dichloropropane

trans-1,3-Dichloropropene

밁

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PAGE 9 RECEIVED: 01/31/86

Analytical Serv

Results by Sample

LAB # 86-01-239 Continued From Above

SAMPLE ID 860105

FRACTION 03A TEST CODE GC 601 Date & Time Collected 01/30/86

NAME EPA Method 601/60 Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. All results reported in ug/L unless otherwise specified. SCAN ≈ scan number or retention time on chromatogram

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RECEIVED: 01/31/86 PAGE 10

Results by Sample Analytical Serv

REPORT

LAB # 86-01-239

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FRACTION 03C TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 01/30/86

SAMPLE 1D 860105

DATA FILE CONC. FACTOR

DATE INJECTED 02/03/86

ANALYST INSTRUMENT

MCL

VERIFIED BY COMPOUNDS DETECTED

SCAN

COMPOUND

RESULT

SCAN

COMPOUND

RESULT

2

Benzene

Toluene

9

1, 3-Dichlorobenzene

Z

1, 4-Dichlorobenzene

1, 2-Dichlorobenzene

N

Chlorobenzene

Ethyl Benzene

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79). ug/L unless otherwise specified All results reported in

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LAB # 86-01-239

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Analytical Serv

PAGE 11

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RESULT

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2

VERIFIED BY COMPOUNDS DETECTED Trichloroethene Bromoform 1, 4-Dichlorobenzene Chlorobenzene 1, 3-Dichlorobenzene 2-Chloroethylvinyl Ether 1, 2-Dichlorobenzene NAME EPA Method 601/60 Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene 1, 1, 2, 2-Tetrachloroethane Tetrachloroethylene Category COMPOUND R_P FRACTION 04A TEST CODE GC 601 Date & Time Collected 01/30/86 ANALYST INSTRUMENT SCAN Results by Sample DATE INJECTED 01/31/86 2 2 2 2 욷 2 밁 S 일 욷 2 밀 밁 g 욷 일 RESULT Ch loromethane Bromomethane Vinyl Chloride Chloroform trans-1, 3-Dichloropropene Chloroethane Methylene Chlaride Trichlorofluoromethane 1, 1-Dichloroethene 1, 1-Dichloroethane trans-1, 2-Dichloroethene 1, 2-Dichloroethane 1, 1, 1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1, 2-Dichloropropane COMPOUND O RECEIVED: 01/31/86 SAMPLE 10 860107 DATA FILE SCAN 011 2

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Serv REPORT Results by Sample Analytical Serv

LAB # 86-01-239 Continued From Above

SAMPLE 1D 860107

FRACTION 04A TEST CODE GC 601 Date & Time Collected 01/30/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute All results reported in $\frac{uq/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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PAGE 13 RECEIVED: 01/31/86

REPORT Analytical Serv

LAB # 86-01-239

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Results by Sample

FRACTION 04C TEST CODE GC 602 Date & Time Collected 01/30/86

NAME EPA Method 602/GC

Category

DATA FILE CONC. FACTOR

SAMPLE ID 860107

DATE INJECTED 02/03/86

ANALYST INSTRUMENT

일 COMPOUNDS DETECTED VERIFIED BY

COMPOUND

RESULT

SCAN

COMPOUND

RESULT

Benzene

1, 4-Dichlorobenzene

2

1, 3-Dichlorobenzene

2

Ethyl Benzene

2

1, 2-Dichlorobenzene

Chlorobenzene

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) ug/L unless otherwise specified All results reported in

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RECEIVED: 01/31/86

Results by Sample Analytical Serv

REPORT

LAB # 86-01-239

SAMPLE ID 860101

TEST CODE GC 601 Date & Time Collected 01/29/86 FRACTION 05A

NAME EPA Method 601/GC

Category

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COMPOUNDS DETECTED

VERIFIED BY

DATE INJECTED 01/31/86 0 DATA FILE CONC. FACTOR

ANAL YST INSTRUMENT

SCAN

RESULT

COMPOUND

SCAN

月

Chloromethane

皇

Bromomethane

밁

Vinyl Chloride

2

Chloroethane

물

Methylene Chloride

R P

COMPOUND

RESULT

Trichloroethene Dibromoch loromethane

Z

Z

2

1, 1, 2-Trichloroethane

皇 cis-1, 3-Dichloropropene

2 2-Chloroethylvinyl Ether 밁

Bromoform

밀

1, 1, 2, 2-Tetrachloroethane

웃

Tetrachloroethylene

밁

Chlorobenzene

일

1, 3-Dichlorobenzene

Ż

1, 2-Dichlorobenzene

9

1, 4-Dichlorobenzene

皇 Trichlorofluoromethane

呈 1,1-Dichloroethene

밁 1, 1-Dichloroethane

2 trans-1, 2-Dichloroethene

2 Chloroform

일 2 1, 1, 1-Trichloroethane

1,2-Dichloroethane

밁 Carbon Tetrachloride

밁 Bromodichloromethane

밁 1, 2-Dichloropropane S

trans-1,3-Dichloropropene

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Results by Sample Analytical Serv

LAB # 86-01-239 Continued From Above

SAMPLE 1D 860101

FRACTION 05A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 01/29/86

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene comelute. uq/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in

RECEIVED: 01/31/86

REPORT Analytical Serv Results by Sample

LAB # 86-01-239

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DESCRIPTION OF SECTION

SAMPLE 1D 860101

NAME EPA Method 602/60 FRACTION OSC TEST CODE GC 602 Date & Time Collected 01/29/86 ANALYST

COMPOUNDS DETECTED VERIFIED BY Category

> DATA FILE CONC. FACTOR

DATE INJECTED 02/03/86

INSTRUMENT

SCAN

COMPOUND

RESULT

SCAN

COMPOUND

RESULT

2

1, 4-Dichlorobenzene

Benzene

2

2

Toluene

016

2

1, 3-Dichlorobenzene

2

Ethyl Benzene

2

1, 2-Dichlorobenzene

2

Chlorobenzene

2

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram.

uq/L unless otherwise specified.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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RESULT COMPOUNDS DETECTED VERIFIED BY Trichloroethene 2-Chloroethylvinyl Ether Bromoform Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene 1, 4-Dichlorobenzene TEST CODE GC 601 NAME EPA Method 601/GC Dibromochloromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene 1, 1, 2, 2-Tetrachloroethane **Tetrachloroethylene** LAB # 86-01-239 Category COMPOUND Date & Time Collected 01/30/86 **ANALYST** INSTRUMENT REPORT SCAN Results by Sample DATE INJECTED 01/31/86 FRACTION 06A 밁 웆 밁 2 2 밁 9 밁 밁 2 2 밁 呈 밁 2 RESULT 328** Analytical Serv Chloroform Chloromethane Vinyl Chloride Trichlorofluoromethane 1, 1-Dichloroethane trans-1, 2-Dichloroethene 1, 2-Dichloropropane trans-1,3-Dichloropropene Bromomethane Chloroethane Methylene Chloride 1, 1-Dichloroethene 1, 2-Dichloroethane 1, 1, 1-Trichloroethane Carbon Tetrachloride Bromodichloramethane COMPOUND 9 RECEIVED: 01/31/86 SAMPLE 1D 860108 DATA FILE CONC. FACTOR SCAN 017 2

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Results by Sample Analytical Serv

LAB # 86-01-239 Continued From Above

SAMPLE 1D 860108

FRACTION OGA TEST CODE GC 601 Date & Time Collected 01/30/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute All results reported in <u>ug/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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Results by Sample Analytical Serv

REPORT

LAB # 86-01-239

FRACTION OGC TEST CODE GC 602 Date & Time Collected 01/30/86

NAME EPA Method 602/63 Category

SAMPLE ID 860108

DATA FILE CONC. FACTOR

DATE INJECTED 02/03/84

ANALYST INSTRUMENT

RP

VERIFIED BY COMPOUNDS DETECTED

50

SCAN

COMPOUND

RESULT

SCAN

COMPOUND

RESULT

2

1, 4-Dichlorobenzene

S

Benzene

Toluene

1, 3-Dichlorobenzene

문

1, 2-Bichlorobenzene

9

Chlorobenzene

Ethyl Benzene

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79). uq/L unless otherwise specified All results reported in

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Results by Sample Analytical Serv

REPORT

LAB # 86-01-239

FRACTION 07A **SAMPLE 1D 860103**

COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 601/GC Category 밁 TEST CODE GC 601 Date & Time Collected 01/30/86 **ANALYST** INSTRUMENT DATE INJECTED 01/31/86 0 DATA FILE FACTOR

RESULT COMPOUND SCAN RESULT COMPOUND SCAN CONC

Chloromethane

2

2 2 Vinyl Chloride **Bromomethane**

Chloroethane

밀

6.70

Methylene Chloride Trichlorofluoromethane

2

1, 1-Dichloroethene

2

1, 1-Dichloroethane

윋

trans-1, 2-Dichloroethene

3.16 Chloroform

밁

1, 2-Dichloroethane

2

1, 1, 1-Trichloroethane

2

밁 Carbon Tetrachloride

2 Bromodich loromethane

1, 2-Dichloropropane

된

0 13 Trichloroethene S

Dibromoch loromethane

밀

1, 1, 2-Trichloroethane

2 2 2-Chloroethylvinyl Ether cis-1,3-Dichloropropene

밁 Bromoform

2

1, 1, 2, 2-Tetrachloroethane

밀 **Tetrachloroethylene**

밀 1, 3-Dichlorobenzene

2

Chlorobenzene

밁 1, 2-Dichlorobenzene g 1, 4-Dichlorobenzene

밁

trans-1,3-Dichloropropene

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Analytical Serv

Results by Sample

LAB # 86-01-239 Continued From Above

SAMPLE ID 860103

FRACTION O7A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 01/30/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in <u>ug/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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LAB # 86-01-239

REPORT

Analytical Serv

PAGE 22 RECEIVED: 01/31/86

		BY MCL ED O	RESULT	Q	Ö	Ü		
/ P3	NAME EPA Method 602/6C Category	RP VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
Samp 1e	FRACTION 07C TEST CODE GC 602 Date & Time Collected 01/30/86	ANALYST	SCAN					
Results by Sample	ION OZC & Time Col	02/03/86	RESULT	Q	Q	Q	QN	
	FRACT	DATE INJECTED 02/03/86	СамРаима	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
RECEIVED: 01/31/86	SAMPLE ID 860103	DATA FILE D	SCAN	2	022			

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

All results reported in $\frac{\log L}{\log L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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LAB # 86-01-239

REPORT

Analytical Serv

문 2 Ÿ 2 밀 Ÿ 밁 S 밁 g RESULT 밁 Z COMPOUNDS DETECTED VERIFIED BY Trichloroethene Bromoform Chlorobenzene 1, 3-Dichlorobenzene 2-Chloroethylvinyl Ether 1, 4-Dichlorobenzene 1, 2-Dichlorobenzene NAME EPA Method 601/GC **Tetrachloroethylene** 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene Dibromoch loromethane 1, 1, 2, 2-Tetrachloroethane Category COMPOUND RP TEST CODE GC 601 Date & Time Collected 01/30/86 INSTRUMENT ANALYST SCAN Results by Sample DATE INJECTED 01/31/86 FRACTION OBA ᄝ 2 S 밁 2 밁 呈 욷 밁 밁 밁 밁 윋 2 S RESULT 0.64 Chloromethane Vinyl Chloride **Trichlorafluoramethane** Chloroform Bromomethane Methylene Chloride 1, 1-Dichloroethane 1, 1, 1-Trichloroethane 1,2-Dichloropropane Chloroethane 1, 1-Dichloroethene trans-1, 2-Dichloroethene Carbon Tetrachloride 1,2-Dichloroethane **Bromodichloromethane** trans-1,3-Dichloropropene COMPOUND 0 RECEIVED: 01/31/86 **SAMPLE ID 860104** DATA FILE CONC. FACTOR SCAN 023 2

CONTRACT SERVICES DESCRIPTION DESCRIPTION SERVICES DES

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Analytical Serv

Results by Sample

LAB # 86-01-239 Continued From Above

SAMPLE 1D 860104

FRACTION OBA TEST CODE GC 601 Date & Time Collected 01/30/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute All results reported in <u>ug/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute SCAN = scan number or retention time on chromatogram.

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LAB # 86-01-239

REPORT

Analytical Serv

RECEIVED: 01/31/86

PAGE 25

Results by Sample

RESULT COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 602/GC 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene 1,2-Dichlorobenzene Category COMPOUND RP FRACTION OBC TEST CODE GC 602 Date & Time Collected 01/30/86 ANALYST INSTRUMENT SCAN DATE INJECTED 02/03/86 2 일 2 밁 RESULT Ethyl Benzene Chlorobenzene COMPOUND Toluene Benzene SAMPLE ID 860104 DATA FILE CONC. FACTOR SCAN 025 2

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AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) uq/L unless otherwise specified All results reported in

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RECEIVED: 01/31/86 PAGE 26

REPORT Results by Sample Analytical Serv

LAB # 86-01-239

SAMPLE 1D 860106

FRACTION 09A

TEST CODE GC 601 Date & Time Collected 01/30/86

NAME EPA Method 601/60 Category VERIFIED BY

1, 1, 2-Trichloroethane RP INSTRUMENT ANALYST SCAN DATE INJECTED 02/03/86 2 2 2 RESULT Ch loromethane Bromomethane Vinyl Chloride COMPOUND O DATA FILE FACTOR SCAN CONC

COMPOUNDS DETECTED Trichloroethene Dibromoch loromethane COMPOUND

20.0

RESULT

2-Chloroethylvinyl Ether cis-1, 3-Dichloropropene

2

Chloroethane

2

Methylene Chloride

Trichlorofluoromethane

1, 1-Dichloroethene

1, 1-Dichloroethane

Sromoform 1, 1, 2, 2-Tetrachloroethane 2 2

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Chlorobenzene Tetrachloroethylene 2

ND

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1, 3-Dichlorobenzene

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1, 2-Dichlorobenzene

S 3.07** trans-1, 2-Dichloroethene Chloroform

2 오 1, 2-Dichloroethane 1, 1, 1-Trichloroethane

2 2 2 Carbon Tetrachloride Bromodichloromethane

ND

1, 4-Dichlorobenzene

1, 2-Dichloropropane

trans-1, 3-Dichloropropene

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PAGE 27 RECEIVED: 01/31/86

Analytical Serv REPORT Results by Sample

LAB # 86-01-239 Continued From Above

SAMPLE ID 860106

FRACTION 09A TEST CODE GC 601 Date & Time Collected 01/30/86

NAME EPA Method 601/6C Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79) #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified SCAN = scan number or retention time on chromatogram. All results reported in_

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PAGE 28 RECEIVED: 01/31/86

Analytical Serv REPORT Results by Sample

LAB # 86-01-239

APIF IN 840104

FRACTION 09C TEST CODE GC 602 Date & Time Collected 01/30/86

NAME EPA Method 602/GC Category

SAMPLE ID 860106

DATE INJECTED 02/03/86

DATA FILE CONC. FACTOR

ANALYST

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VERIFIED BY COMPOUNDS DETECTED

30 L

SCAN

COMPOUND

RESULT

SCAN

COMPOUND

RESULT

Q

S

Benzene

1, 4-Dichlorobenzene

N

1, 3-Dichlorobenzene

Q

Toluene

Ethyl Benzene

1, 2-Dichlorobenzene

Ÿ

Chlorobenzene

Q

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) ug/L unless otherwise specified.

PAGE 29 RECEIVED: 01/31/86

Serv REPORT NonReported Work Analytical Serv

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

DUP 602	DUP 602	DUP 602	DUP 602	DUP 602	DUP 602	DUP 602	DUP 602	DUP602
010	02D	OBD	040	050	06D	07D	080	040
DUP 601	DUP601	DUP 601						
				••				
018	02B	038	04B	05B	06B	07B	08B	098

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	LAB # 86-01-240	CERTIFIED BY CONTACT CONDVER	times the detection limit. Lues ranges between for this analysis on the acceptable limits indicating
	ral Serv REPORT 03/10/86 12:21:44	PREPARED <u>Radian Analutical Services</u> BY <u>8501 MoPac Blvd.</u> P.O. Box 9948 Austin, Texas 78766 ATTEN PHONE (512) 454-4797	* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between So and 100%. * Indicates that spike recovery for this analysis on the specific matrix was not within acceptable limits indicating an interferent present. tical Serv TEST CUDES and NAMES used on this report Silver, ICPES Gadmium, ICPES Chromium, ICPES
CONTROL STATEMENT OF THE PROPERTY OF THE PROPE	PAGE 1 RECEIVED: 01/31/86	Radian B1. 4 Austin Larry French PLANT4 SAMPLES 9 Plant 4 Carswell AFB (Gen. Dunamics)	E IDENTIFICATION E DENTIFICATION AGE AS GA BA E CR
	PAGE 1 RECEIVED:	REPORT TO ATTEN CLIENT COMPANY FACILITY	2030 TAKEN TRANS TRANS TRANS TRANS TRANS TRANS TRANS TRANS TAKEN TRANS

Analytical Serv

RECEIVED: 01/31/86

PAGE 2

LAB # 86-01-240

Sample 05 0.008* <. 005< 0.052 <.005 0.0003* < 005 < ∴ 003 02/05/86 02/10/86 0.004* <.005 0.035 <.002 <.005 ₹. 0002 <. 002 <.003 Sample 04 Sample 09 02/05/86 02/10/86 Sample 03 entered units 0.015 <.005 0.065 <.002 0.013* <. 0002 <. 002 <.003 Sample 08 02/05/86 02/10/86 RESULTS BY TEST 0.019* 0.013 <. 005 0.059 0.003* <. 0002 <. 002 ć. 003 Sample 02 02/10/86 02/05/86 Sample 07 0.012<.005 0.053 <.002 <.005 ₹. 0002 <.003 <. 002 02/10/86 Sample 06 02/05/86 Sample 01 date complete default units TEST CODE Test code D66010 ug 7m1 DG3020 HG CA PB GA SE GA S 28 2

entered units

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PAGE 3 RECEIVED: 01/31/86	Analytical	cal Serv REI RESULTS BY TEST	REPORT Test	LAB # 86-01-240 CONTINUED FROM ABOVE	
B ()	0.025	0.068	0.034	0.038	
	<. 002	<. 002	<.002	₹. 002	
ш. Э.	0.012*	0.010*	0.018*	0.067	
DG3020	02/05/86	02/02/86	02/02/86	02/05/86	
DG6010	02/10/86	02/10/86	02/10/86	02/10/86	
HO CA	<. 0002	<. 0002	0.0003*	₹. 0002	
₩.	<. 002	<. 002	0.016	₹. 002	
SEGA	<. 003	₹. 003	₹. 003	<. 003	
7111/60					

LAB # 86-01-242

Analytical Sarv REPORT 02/21/86 13:31:36

RECEIVED 01/31/85

Radian Analytical Services 8501 MoPac Blvd. P. O. Box 5948	Austin, Fexas 78766 CERTIFIED BY	(512) 454-4797 CONTACT FRENCH		Footnotes and Comments	* Indicates a value less than 5 times the detection limit	Potential error for such low values ranges between 50 and 100%.	@ Indicates that spike recovery for this analysis on the	specific matrix was not within acceptable limits indicating an interferent present.	Analutical Serv TEST CODES and NAMES used on this report
PREPARED <u>Radi</u> BY <u>8501</u> P.O.	ATTEN	PHONE (512			* Indicates a	Potential err 50 and 100%	@ Indicates t	specific matrix was not an interferent present	tical Serv TES
REPORT Regison Concoration TO Larry French Avstin, Texas		PLART 4 SAMPLES 10	Seneral Dynamics OEHL Plant 4, Bldq 4 Austin, Texas	WORK ID AF Plant 4	1/29-30/86 Fed Ex S21751334, 321751430	H20 312-027-27			SEMPLE IDENTIFICATION Analy
8EPOR1 10	ATTEN	الله 10 الق	COMPARY	WORK ID	TAREN	# O a	14000E	3	

Analytical Serv TEST CODES and NAMES used on this report

EX 625 Extraction only - 625 BN/A M625 A Method 625 Acid Compounds M625 B Method 625 Base/Neutrals MSNS S GCMS Characterization-ABN M3 608 Pesticides & PCBs by GC/MS

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RECEIVED 01/31/85	T T T T	Analytical Serv RESULIS BY TEST	KEPUKI Y TESI	LAB # 85-01-242	242-1
(ES) (ONE 1885) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sample 01 (entered units) 01/31/85	Sample 02 Centered units? 01/31/86	Sample 01 Sample 02 Sample 03 sample 03 sample 03 01/31/85 (entered units) (entered units) (01/31/85 01/31/86	Sample 04 (entered units) 01/31/86	Sample 05 (entered units) 01/31/86
	Sample 05	Sample 07	Sample 08	Sample 09	Sample 10
The second secon	01/31/86	01/31/86	01/31/86	01/31/86	01/31/86
				01/31/86	

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Serv Results by Sample Analutical Serv

LAB # 86-01-242

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FRACITON 01A TEST CODE M625 A NAME Method 625 Acid Compounds Date % Time Collected 01/30/86

Category

DATA FILE 20001242001 0010 FACTUR

DATE EXTRACTED 01/31/86 DATE INJECTED 02/07/86

INSTRUMENT

MUL

COMPOUNDS DETECTED 0 VERIFIED BY LAK

COMPOUND	4-nitrophenol	2, 4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
RESULT NPDES SCAN	7.4	S. A.	4 4	9.A	104	
RESULT	QN	QN	QN	ND	QN	QN
COMPOUND	2,4,6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol	2,4∵dımethylphenol	2-ritrophenal
EPA	415	204	₫ (i)	216	ক ভ ল	578
PPD68 3CAN	115	কু কু	2	<u>.</u> .03	를 3 5	ග් , දුර

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RESULT

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Condition RESULT	45-phenoi 53	. t.o.rephensl48	IPT Temendomentations a	du phanet
330, 6885		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1113 883	-+ 61 4.

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RSE 4 ECEIVED: 01/31/85

REPORT Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

SAMPLE 1D 850106 HEIT

FRACTION 01A TEST CODE M625 A NAME Method 625 Acid Compounds Date % Time Collected 01/30/86

Minimum detection (4) a not detected at EPA detection limit method 625, (Federal Register, 11/26/84) SL = detected in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. linits should be multiplied by conc. factor.

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NAME Method 625 Base/Neutrals VERIFIED BY COMPOUNDS DETECTED nitrosodimethylamine bis(2 ethylhexyl)phthalate butyl benzyl phthalate di-butyl phthalate N-nitrosodiphenylamine N-ritrosodi-n-propylamine di-n-octyl phthalate diethyl phthalate dimethyl phthalate benzu(a)pyrene acenaphthylene benzo(a)anthracene benzo(b)fluoranthene chrysene anthracene benzu(k)fluoranthene LAB # 86-01-242 ategoru COMPOUND U.UL F2 FRACILUN 01A TEST CODE M625 Date & Time Collected 01/30/86 EPA 61B 62B 63B 66B 67B 69B 70B 71B 74B ANALYST INSTRUMENT **68**B 72B 73B 75B 76B 7.7E 758 1663 1323 NPDES SCAN KEFORT Results by Sample 26B 41B 43B 42B 138 15B 27B 24B 250 183 0 0 0 19 7. 30 98 313 ATE EXTRACTED 01/31/86 DATE INJECTED 05/07/86 RESULT 2 2 27 S 2 2 2 2 Ξ^{l} <u>S</u>] ----S 2 2 Analutical derv DATE EXTRACTED acenaphthene hexachlorobenzene hexachloroethane benzidine 1, 2, 4-trichlorobenzene bis(2-chloroethyl)ether 2-chloropaphthalene 1, 2-dichlorobenzene 1.3-dichlorobenzene is a dichlorobenzene 3 inchlurabenziding 408 4-chioropheryl phenul other សេវៈទី២ មួយក៏រុទ្ធាំស COMPIDENCE 10001010000 15H 60105E 11 H1275 01/31/85 A TO 183 300 04 30 31 13 ري دي (C) 00 05 100 100 1 54 (4) :3 37.5 20 DATA FILE FACTOR 2.00 2.00 0.00 第三日 子口 នា គូ 33 37 174 20 10 50 71 70 70 1.1 (C) (1) (十 10 65 100 **3** 六), 1 ;

40 (R)	21/31/85	Analytical	Serv Results by Sample	REPORT Sample		LAB # 86-01-242 Continued From Above
Samue 11 850105 Hat	3.50108		ON OIA	FRACTION OIA TEST CODE M625 B Date & Lime Collected 01/30/86	M625 B 30/86	NAME Method 625 Base/Neutrals Category
1.48	+13	4 bromophenyl phenyl ether	QN	88	798	benzo(ghi)perylene ND
65 [1]	4 837 p	bis:2-chloroisopropyl)ether	QN	32B	808	fluorene ND
108	〠t	bis:2-chloroethoxy)methane	QN	44E	818	phenanthrene B <u>ND</u>
84°C	84 76 87	herachlorobutadiene	QN	198	828	dibenzo(a,h)anthracene <u>ND</u>
28 S	854	heyachlorocyclopentadiene	ON	37B	838	indeno(1,2,3-cd)pyrene HO
986	en Transfer	isophorone	QN	458	8413	Dyrene ND
348	558	naphthalene	QN			
さらず	ر. 5	nitrobenzene	QN			
SURROCATE	PECOVERIES	S=1				

RESULT	d5-ritrobanzene 43	2-fluorobiphenyl 44	314-terphenyl 55	110 brinkeryl man
9080 C008	190 304	Constant	671 623 643 771 743 763	

for a set tetresca of the seterious hand method 625. (Federal Register, 10/26/8) entre otherwise specified. t in beath, our liverantment, and pontack) riversanthene comelute. មាន គ្រុមស្រាស់ស្បានគេណា

high concentrations

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%32E 7 *ECETVED: 01/31/85

Analytical serv Results by Sample

LAB # 86-01-242 Continued From Above

FRACTION OIA TEST CODE M625 B Date & Time Collected 01/30/86 DEH SOLOGE IL ENWES

NAME Method 625 Base/Neutrals Category

Minimum detection \mathbb{R}^{1} is detected in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1) d a sothracene and phenanthrene corelute in high concentrations J m estimated value, less than method detection limit. libits stoold be multiplied by conc. factor. COTAC FACTOR

LAB # 86-01-242

Serv REPORT

Analytical Serv

Page 8 RECEIVED: 01/31/88

TEST CODE MSNS S NAME GCMS Characterization-ABN Hected 01/30/86 Category	VERIFIED BY LAK	CONF REF T LEVEL CMPD	
FRACTION 01A TEST CUDE MSNS S Date & Time Collected 01/30/86	UNITS 44/1	RESULT	
FRACTON 01A Date & Time Co	DATE ANALYZED 02/11/86	GMGDGMD	No PCBs detected
SAYPLE 10 \$50106 H2U	CERU # 3 <u>901242001</u> SAMPLE STR 1	90 АМ	

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23 07 24 13 14 14 15 14 15 14 15 15 06	el. 31/88	Assignment Serv Results by Sample	REPURT y Sample		LAB # 86-01-242
al alleger	SAMPLE 12 920106 H20	FRACTION OIA TEST CODE MS 60 Date & Time Collected 01/30/86	TEST CUB	TEST CUDE MS 608 ected 01/30/86	NAME Pesticides % PCBs by GC/MS Category
DATA FRE	18 <u>20001242001</u>	PATE EXTRACTED <u>01731786</u> PATE INJECTED <u>02707786</u>		ANALYGT	VERIFIED BY LAK COMPOUNDS DETECTED O
TH DES SOAR	4 EPA	CONPOURD	NPDES SCAN	EPA	CGMPOUND
đ.	8.5P	aldrin ND	2P	102P	alpha BHC ND
10P	d0.5	dieldrin	e e	103P	beta BHC ND
₹; •	415	chlordane ND	44	104P	gamma BHC ND
е Л 1	0. 	4, 4 '-DBF ND	9P	105P	delta BHC ND
다. (1)	0. 25 3	1, 4'-DDE NI	18P	106P	PCB-1242 ND
EL 9	3 4	4, 4'-DBD ND	197	107P	PCB-1254 ND
ÜL pra v e	a . ស៊ី ប	offpha endo-offan 110	20P	108P	PCB-1221 ND
1 19 1 2	6 9 9	esta endosulfan MD	21P	109P	PCB-1232 ND
û Pri	ù.	editoscifan sulfate NR	22P	110P	PCB-1248
<u>44</u>	6. 19 2	All martines	400	11116	PCB-1260ND
•	n	ART - Sphiebyde City ea	라 (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1126	PCB-1016 ND
 	0.00	heat white Man	4000 4000	1136	toxaphene ND
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PAGE 10 RECEIVED, 01/31/85

Analytical Serv REPORT Results by Sample

LAB # 86-01-242 Continued From Above

SAMPLE IP REGIOS HED

FRACITUN 01A TEST CODE MS 608 Date % Time Collected 01/30/86

NAME Pesticides & PCBs by GC/MS Category

WOTES AND DEFINITIONS FOR THIS REPORT

State a scan nomber on chromatogram

(9) - not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in Aicrograms/liter unless otherwise specified.

01/31/85

REPUKI Results by Sample Shaintical Serv

LAB # 86-01-242

SAME 10 850100 H20

FRACTION 02A TEST CODE M625 A
Date % Time Collected 01/29/86

NAME Method 625 Acid Compounds

Category

20001242002 DATA FILE FACTOR

DATE EXTRACTED 01/31/86 DATE INJECTED 02/07/86

ANALYST INSTRUMENT

NPDES SCAN RESULT ONIO BIND PACS SECTO

N/N FD

VERIFIED BY COMPOUNDS DETECTED

L AK

2

4-nitrophenol

RESULT

COMPOUND

EPA

2

2,4-dinitrophenol

QZ.

2-methyl-4,6-dinitrophenol

60A

4 4

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59A

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2

58A

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2

pentachlorophenol

2,4,6-trichlorophenol 4-chloro-3-methylphenol 4 A A4.3 316 FPA

2-chlorophenol 2, 4-dichlorophenol

65A

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2-nitrophenol

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2,4-dimethylphenol

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phenol

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SURROGATE RECOVERIES

COMPOUND BOOD NACE

RESULT

d5-phenol

PS1

2-fluoropherol

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ATH DEFIUITIONS FOR THIS REFURE 20103

y specified SCAN we scan number or retention time on chromatogram ugil unless others esolts reported in

PAGE 12 RECEIVED: 01/31/85

Analytical Serv

Results by Sample

LAB # 86-01-242

Continued From Above

SAMPLE 19 850100 H20

FRACTION OZA TEST CODE M625 A Date % Time Collected 01/29/86

NAME Method 625 Acid Compounds Category

(4) = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

 \mathbb{S}_{+} \approx detected in reagent blank) background subtraction not performed J = estimated value; less than method detection limit.

be multiplied by conc. factor.

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indicates dilution of sample if greater than one (1). CONC. FACTOR

Minimum detection

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PASE 13

LAB # 86-01-242

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Analytical Serv

2 2 퀽 2 TA T 2 2 2 Q Z \exists 2 QF. 믜 RESULT NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED N-nitrosodimethylamine M-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate phthalate phthalate phthalate Þ ¢ acenaphthulene 2 phthalate penzo(a)pyrene benzo(b) fluoranthene anthracene benzo(a)anthracene enzuik) fluoranthene Category di-butyl di-m-octyl diethyl dimethul COMPOUND J M 13 2 TEST CODE M625 Date & Time Collected 01/29/86 EPA 76F 3/2/ 780 61B 62B 63B 66B 67B **68**B 69B 70B 71B 72B 73B 746 397 INSTRUMENT ANALYST 1660 NPDES SCAN 1321 Results by Sample 13B 26B 41B 43B 42B 158 27E 24B 25B 9 S E 7. Ç. 151 7 ATE EXTRACTED 01/31/86 DATE INJECTED 02/07/86 <u>C</u> Q: <u>c</u>. Z, 밁 Ę 2 FRACTION O2A RESULT Q Z 일 Q Z Q N DATE EXTRACTED ACC Architerophenous obsent other benzidine 1, 2, 4-trichlorobenzene Sedichlorobenzene 1.4-dichlorebenzene acenaphthene hexachlorobenzere hexachloroethane bis(2-chloroethyl)ether 2:-chloronaphthaiene 1. M-divhlorobenzene dirhierobenzidine COLPOUND 17 174 • 1 20001242C02 SAMPLE 10 850100 H20 31. FPA (i) 883 13 ;·` 133 100 . j () () 30 5 DATA FILE CONC. FACTOR MPDES SCALL RECEIVED 4 C B 57 53 53 363 27 16.E 21 C 24 - 4 14 23 10 14 17E <u>ن</u> <u>ب</u> ن ا 045

CORPORATION

ulu eTii		52/10/11		Praintical park Results by Sample	REPURI Sample		LAB # 86-01-242 Continued From Above
) J		15 00100 FO HAR		FRACILON OZA TEST CODE M625 B Date & Time Collected 01/29/86	TEST CO	JDE M525 B	NAME Method 625 Base/Neutrals Category
	97-1	52 14	4.bromophenyl phenyl	ther	88	798	benzo(ghi)perylene ND
	23 Nj	14 834	bis(2-chleroisopropyl)ether	ether ND	328	808	fluorene
	24 67) 444	9 888	bis(2-chloroethoxy)meth	thane ND	44B	818	phenanthrene B ND
	24 11 25	8 (3)	hexachlorobutadi	NO enelbe	192	828	dibenzo(a,h)anthracene ND
	27 17	ങ ന ന	hexachlorocyclopentadı	ND sene	378	838	indeno(1,2,3-cd)pyrene ND
2	30 E	ន ក ភា	ısophar	lorone ND	45B	848	Dyrene ND
04	200	03 01 27	naphthal	<u>dn</u> enele			
6	70+	ଷ୍ଟ୍ର	nitrobenz	ON Huazus			

SCHROGATE PELDVERIES

HCS(8-1	dSongtrubenzene	1-81-orobiphenyl 148	414 temphony: 278	
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to a cot detected of this colocites limit method 625, (Federal Register, 10/26/84) pligh concentrations Arbertalse open ified * a bergotherluoranteers and benzalationsmithene consiste ្នាវាលានការក្រាស់ក្នុងសេច ស្រស ស្រីស្រី ស្រីស្រីស្រីស្រីស្រីស្រី *** 化二氯甲基溴合物 医异苯甲酚

PAGE 15 RECEIVED 01/31/85

REFER Results by Sample **発展しているしてのできる**

LAB # 86-01-242 Continued From Above

SAYLE IS SECTION HER

NAME Method 625 Base/Neutrals Category FRACITUN 02A TEST CODE M625 B Date & Time Collected 01/29/86

Minimum detection $\mathbb{R} \mathbb{L} + \mathsf{detected}$ in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1). 3 - anthracens and phenanthrene co-elute in high concentrations. o m estimated value, lass than method detection limit. factor. limits should be multiplied by conc CCMC FACTOR

PASE 18 RECEIVED: 01/31/85

Serv Results by Sample Ansagtical Serv

LAB # 86-01-242

TH 001055 01 312/45

FRACTION 02A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 01/29/86 Category

VERIFIED BY LAK

SAMPLE 81ZE 1

DATE ANALYZED 02/07/86

UNITS UG/1

REF CMPD CONF LEVEL

No PCBs Datected

CONFOCUMD

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RESULT

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LAB # 85-01-242	8 NAME Pesticides & PCBs by GC/MS Category	VERIFIED BY LAK COMPOUNDS DETECTED O	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHCND	delta BHCND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248ND	PCB-1260 ND	PCB-1016 ND	toxapheneNE	
REPURT Opte	TUN 02A TEST CUDE MS 608 % Time Collected 01/29/86	ANAL.YST _	SCAN EPA	102P	103P	104P	105P	106P	107P	1088	1096	110P	1111	112P	11.3P	
Sail	TES Ilect		NPDES	2P	ЭБ	4P	5P	18P	19P	20p	21P	22P	23P	246	25P	
Aralutical Serv Results by	FRACTION OZA Date & Time Co	DATE EXTRACTED <u>01/31/86</u> DATE INJECTED <u>02/07/86</u>	COMPOUND RESULT	aldrin ND	dieldrin ND	chlordane ND	4, 4'-DDT ND	4, 4 '-DDE ND	4, 4 DDD ND	alpha endosulfan ND	Deta codosolfan (M)	Vadosolfan sulfate ND	OR urapas	GM - Abhdahla mishoo	R. P. S. S. B. Lore M. P. C.	i <u>dM</u> ebricade tolosedgen
FRCEIVED 01/31/85	Samue 10 850100 Hau	ACTUR 20021042002	SCAN EPA	सुरुष्ट	ር ው	- ale	6. C.	0.m.*	a.tto	<u>ម</u> វិ	0 ?	j G	0 - 22 - 23	10. 20. 20.	14 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	G.
	4.1 4 	1247 F125 1244 F1243	5 631 97	Œ.	ੂੰ ਹੈ	a. 9	։ 04	& 3	a. &	ā. C	<u> </u>	ु: 	12. 24. 574	0 ; U 1.⊶4	73 45 44	7 <u>4.</u>

PAGE 18 RECEIVED: 01/31/85

Analytical Serv Results by Sample

LAB # 86-01-242 Continued From Above

CONTROL MANAGE

SAMPLE ID 850100 HED

FRACTION 02A TEST CODE MS 608 Date % Time Collected 01/29/86

NAME Pesticides & PCBs by GC/MS Category

NOTES AND DEFINITIONS FOR THIS REPORT

SCAN = scan number on chronatogram.

180 : not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified

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	CORPORATION	
ورودواه المحمدي		

01/01/85

REPURT Results by Sample Analutical Serv

LAB # 86-01-242

SAMPLE 1B 850102 H2U

NAME Method 625 Acid Compounds Category

FRACTION 03A TEST CODE M625 A

Date % lime Collected 01/29/86

DATA FILE 22501242003 COME FACTOR

INSTRUMENT

COMPOUNDS DETECTED

DATE EXTRACTED 01/31/86 DATE IMJECTED 02/07/86

M

LAK VERIFIED BY

EPA

COMPOUND

2

4-nitrophenol

RESULT

밁

2, 4-dinitrophenol

S

2-methyl-4,6-dinitrophenol

2

NPDES SCAN RESULT COMPOUND 代表 PACE STATE 114

74 5 D 2 2 2, 4, a-trichlorophenol 4-chloro-3-methylphenol

58A

59A

4 A 9A

110

2-chlorophenol

60A

64A 474 10A

2

2,4-dichlorophenol

2

2,4-dimethylphenol

d+3

4 To

٠<u>٠</u>.

376

65A

2

2-nitrophenol

pentachlorophenol

Cd

BRIGHT FECTIONS

CENT DATE:

RESULT

133 thenol 133

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14 phenol

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PAGE 20 RECEIVED: 01/31/85

Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

SAYPLE ID 850102 H20

NAME Method 625 Acid Compounds

Category

NO - not detected at EPA detection limit method 625, (Federal Register, 11/26/84). FRACTION 03A TEST CODE M625 A Date & Time Collected 01/29/86

Minimum detection indicates dilution of sample if greater than one (1). J = estimated value, less than method detection limit. CCNC FACTOR:

 SL^{-11} detected in reagent blank; background subtraction not performed

be multiplied by conc. factor. linits should

COCCESSION COCCESSION	
ece Teresta Teresposos Treceses Terespos	ZO-L-Y NO L NO L

Consideration of the property of the second second

밀 RESULT 믜 NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY N-nitrosodimethylamine N-nitrosodi-n-propylamine phthalate di-butyl phthalate phthalate phthalate N-nitrosodiphenylamine bis(2-ethylhexyl)phthalate ∢ benza(a)pyrene Ÿ 1 acenaphthylene phthalate benzu(k)fluoranthene anthracene benzo(b)fluoranthene benzo(a)anthracene chrysene LAB # 86-01-242 ategory dimethyl di-n-octyl diethyl butyl benzyl COMPOUND 3 Cil TEST CODE M625 Date & Time Collected <u>01/29/86</u> 61B 66B INSTRUMENT EPA 62B 63B 67B **68**B 69B 70B 71B 72B 7413 75E 76.0 778 7.3B 783 ANALYST NPDES SCAN 1322 REPURI Results by Sample 26B 41B 43B 42B 133 158 29B 24B 25B 913 188 03 (C) **5**B 6B 7.13 212 01/31/86 S FRACTION 03A RESULT 2 S NO 2 S 2 2 뒨 2 2 2 일 2 5 S N Anaiutical Serv DATE EXTRACTED DATE INJECTED acenaphthene hexachloroethane 2.4-trichlorobenzene hexachlorobenzene 2-chloronaphthalene 2-dichlorobenzene 4-chlorophenyl phenyl ether benzidine bis(2-chloroethyl)ether 1, 3-dichlorobenzene 1,4 dichloroberzene State his his heart and the S, 4-dinitrotoluene s divitionoluene 1, 2-dipherythydrazine COMPOUND 20101242003 nì 124 SO 1058 OT 31 SEAS 01/31/85 E13 1 :: B 23 25 **B**00 24 24 24 FPA 13 03 60 33 Dii Ori 27 ea t ÇĴ Ü TAIA FILE 114 75 RECEIVED: 5.30 ad 4000 35 20 70 (E) (O) ري سر سر 175 دائم ودر درد 1. i 4.1.a 1.4.a 1.4.a ئېپ تە-ئا:-끅 9:100 2 053

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عادة	PASE 22 RECEIVED: 01/31/85	01/31/	Analytica 85	l Serv Results by Sample	REPORT Sample		LAB # 86-01-242 Continued From Above
क्र	SAMPLE 10 950102 HZO	291053		FRACTION 03A TEST CODE M625 Date % Time Collected 01/29/86	TEST CODE M625 B lected 01/29/86	M625 B 29/86	NAME Method 625 Base/Neutrals Category
	1 + 13	413	4-bromophenyl phenyl eth	Cher	88	798	benzo(ghi)perylene ND
	128	400 t	bis(2-chloroisopropyl)ether	ner ND	328	808	fluorene
	108	60 1	bis(2-chloroethoxy)metha	ane ND	448	818	phenanthrene B ND
	846	ତ ଅ	hexachlorobutadi	ene ND	195	828	dibenzo(a,h)anthracene ND
	358	8000	hexachlorocyclopentadio	ene ND	37B	838	indeno(1,2,3-cd)pyrene ND
0	38.8	8 ÷ 6	isophor	one ND	45B	848	pyrene ND
∧ ₹	865	0 1 1 1	naphthal	ene ND			
	102	3 88	nitrobenzo	ene ND			

SUPROBATE RECOVERIES

I huaydro-6: p	99 93 93
d14 terphenyl275	1480 193
2-fluorobiphenyl 149	£31 552
d5-nitrobenzene 176	1881 8.51
PESULT	SCAN CODE

CONTROL AND DEPTINITIONS FOR CHIS PERMIT

Ail results reported in ____uq_l unless otherwise specified. ND == not detected at EPA detection limit method 625, (Federal Register, 10/26/84) high concentrations f=benzo(b) fluoranthene and benzo(k) fluoranthene co-elute. Statt a cean nember or ratention time on chromatogram. enzota)anthracene and chrysene comelute

COCCOCCOCCENTRACE COST COCCOCC

PAGE 23 RECEIVED: 01/31/86

Analytical Serv RePORT Results by Sample

LAB # 86-01-242 Continued From Above

SANALE ID 850102 H20

FRACTION 03A TEST CODE M625 B Date & Time Collected 01/29/86

NAME <u>Method 625 Base/Neutrals</u> Category

Minimum detection S=anthracene and phenanthrene co-elute in high concentrations. SL=a detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. limits should be multiplied by conc. factor. CCMC FACTOR

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PASE 24 RECEIVED: 01/31/85

Analytical Serv

REPORT Results by Sample

LAB # 86-01-242

BELLEVILLE BESTERS SESSENT WILLIAM PROPERTY WILLIAM

SAMPLE ID 850102 HED

FRACTION 03A TEST CODE MSNS S NAME GCMS Characterization-ABN Date % Time Collected 01/29/86 Category

VERIFIED BY LAK

Chat) # <u>2001242C03</u> SAMPLE 51ZE 1

DATE ANALYZED 02/07/86

UNITS UG/1

REF CMPD CONF

RESULT

No FOUS Detected

CUMPOUND

SCAN

PAGE 25 RECEIVED: 01/31/85	01/31/85	Analytical Serv Resu	lts by	REPORT Sample		LAB # 86-01-242
	SAMPLE 10 850102 H20	FRACTION Date % T	03A 1me Col	FRACTION 03A TEST CODE MS 6 Date % Time Collected 01/29/86	MS 608 29/86	NAME Pesticides & PCBs by GC/MS Category
DATA FILE Secondary	LE <u>20001842603</u> OR1	DATE EXTRACTED <u>01</u> DATE INJECTED <u>02</u>	01/31/86 02/07/86	ANA	ANALYST	WJL VERIFIED BY LAK COMPOUNDS DETECTED O
** 5ES SCAR	५७३ :	CONPOUND	RESULT N	NPDES SCAN	EPA	COMPOUND
14.24 4.74	a. A	aldrin	QN	Ç	102P	alpha BHCND
일. 동기 연구	d05	dieldrin	Q	d d E	103P	beta BHCND
a Ö	91P	chlordane	Q	44	104P	gamma BHCND
4.7.		4, 4'-DDT	QN	SP	105P	delta BHC NO
ē ú	0.59	4 . 1 '-DDE	QΝ	18P	106P	PCB-1242 NO
(h (f	0. 0.	4.4 '- 1)DD	Q	19P	107P	PCB-1254 ND
11F	0. a) 3	alpha endosulfam	윘	20P	108P	PCB-1221 ND
2 g g g g g g g g g g g g g g g g g g g	u . ⊘	beta endosulfan	QN	21P	109P	PCB-1232ND
(); ;; ;=	4 2	endosulfan sulfate	2	22P	110P	PCB-1248 ND
ii. T	9.00	u april	QN	23P	111P	PCB-1260 ND
oto genta es•al		aphy	2 2	24P	112P	PCB-1016 ND
& ○ □		this is	QN	25P	113P	toxapheneND
<u>a.</u> E.	Tolf	Hepte	GN			

PASE 28 RECEIVED. 01/31/85

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Serv Results by Sample

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LAB # 86-01-242 Continued From Above

SAMPLE ID 850102 H20

FRACTION O3A TEST CODE MS 608 Date & Time Collected 01/29/86

NAME Pesticides & PCBs by GC/MS Category

GOTES AND DEFIRITIONS FOR THIS REPORT

SCAN = scan number on chromatogram.

 $\Omega U \cong {\sf hot}$ detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified

	Analytical Serv Results by Sampie	REPURI Sample	LAB # 86-0
SAMPLE 10 850103 H20	FRACTION 04. Date % Time	FRACTION 04A TEST CODE M625 A NAME Method 62 Date & Time Collected 01/30/86	NAME Method 62 Cate

AME Met	Category
ON 04A TEST CODE M625 A	Time Collected 01/30/86
850103 H20 FRACTI	Date &

IY LAK	RESULT	ND	QN	UND	QN			
VERIFIED BY COMPOUNDS DETECTED	COMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol_	pentachlorophenol	phenol		
MJL F2								
ANAL YST TRUMENT	EPA	58A	59A	60A	64A	65A		
INS	NPDES SCAN	7A	5.4	4 4	84 8	104		
01/31/86 02/07/86	RESULT	QN	QN	QN	QN	QN	QN	
DATE EXTRACTED <u>01/31/86</u> DATE INJECTED <u>02/07/86</u>	самеаона	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2-nıtrophenol	
DATA FILE <u>25U91242604</u> 6 FACTOR <u>1</u>		ų 4	4-ch]					RIES
표 8.	ЕРА	214	439	ज (द	9.14 4.15	¥ 17 (1)	57A	ECOVE
DATA FILE CONC FACTOR	иерев всяк	11A	ব ডি	₹. **	: (d	<u>ថា</u> គ្រា	ાં સં	SUPROGATE RECOVERIES
			2 (3)	05	9			

d3-phenol	56.4 50.4	
Seise tribromophenol 118		
2-fluorophenol82	75.8	
d5-phenol_54	10 v	
CONTROUND RESULT	BOOM ROPE	

SCAR is seen number or retention time on chromatogram. Alt $_{
m j}$ esults reported in $_{
m j}$ upforms other, $_{
m j}$ spec ROTES SON LEFINITIONS FOR THIS REPORT.

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01/31/85

REPURI Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

SANYLE ID ESO103 HELL

FRACTION <u>O4A</u> TEST CODE <u>M625 A</u> NAME Method 625 Acid Compounds Date & Time Collected <u>01/30/86</u>

Category

👯 🖰 Got detected at EPA detection limit method 625, (Federal Register, 11/26/84). $\mathbb{S}\mathbb{L}^{-1}$ detected in reagent blank; background subtraction not performed. $\sigma \approx \epsilon$ stimated value, less than method detection limit.

Minimum detection indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CENC FACTOR

Analytical Serv REPORT Results by Sample

LAB # 86-01-242

LAK FRACTION 04A TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected 01/30/86 VERIFIED BY COMPOUNDS DETECTED Category F2 ANALYST INSTRUMENT DATE EXTRACTED 01/31/86 PATE INJECTED 02/07/86 [N'A FILE <u>20031242004</u> FAC OF 1

						~
anthracene BND	7813	3B	N	4-chlorophanyl phenyl ether	403 4-ch	178
acenaphthylene ND	77B	2E	N	#100 manthene	177 176 187	24
chrysene A <u>ND</u>	76B	186	NO	1.2-diphesythydrazine	Par Par	es. Es
benzo(k)fluoranthene * <u>ND</u>	75B	a6 !	O Z	2/amdinit∴otoluene	en A	\$50 50 50
benzo(b)fluoranthene * ND	748	1 7B	ON	2,4-4initratoluene	<u>ක</u> ණ	a k
benzo(a)pyrene ND	73B	1 6B	ON N	3,3′dıchlorobenzidine	aec	23 5% 54
benzo(a)anthracene A NO	72B	. 5B	ON	1,4-dichlorobenzene	872	66 69 63
dimethyl phthalate ND	718	258	ON	1,3-dichlorobenzene	365	218
diethyl phthalate ND	70B	: 24B	N	1,2-dichlorobenzene	258	8 03
di-n-octyl phthalate ND	698	1 29B	QN	2-chloronaphthalene	202	କ୍ରିମ୍ବ
di-butyl phthalate3	1321 68B	. 26B	QN	bis(2-chloroethyl)ether	182	11 2
butyl benzyl phthalateND	67B	158	ON	hexachloroethane	128	@ # #
bis(2-ethylhexyl)phthalate	1560 66B	138	ON	hexachlorobenzene	88	න ලැ වැ
N-nitrosodi-n-propylamine ND	9E9	42B	QN	1, 2, 4-trichlorobenzene	88	E 10 17
N-nitrosodiphenylamine ND	62B	433	QN	benzidine	ଷ୍ଟ	@ *#
N-nitrosodimethylamıne M-	618	418	N	acenaphthene	18	ŝta ver
COMPOUND	SCAN EPA	NPDES	RESULT	COMPOUND	EPA	STEW SCAP
LUMPUONDS DETECTED	INGLICATORIA		06/0//00			

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તાં જે	PAGE 30 RECEIVED	PAGE 30 RECEIVED: 01/31/85		Analytical Serv Resul	ts by	Serv REPORT Results by Sample		LAB # 86-01-242 Continued From Above
T)	Syple 1	SAMPLE 10 SECTOS HED	3 H20	FRACTION 04A Date & Time	04A me Col	ACTION 04A TEST CODE M625 B te % Time Collected 01/30/86	M625 B 30/86	NAME Method 625 Base/Neutrals Category
	€ *† ~•	41B	4-bromophenyl phenyl	nyl ether	QN .	88	79B	benzo(ghi)perylene ND
	8 3	의 전 발	bis(2-chloroisopropyl)et	pyl)ether	위	328	вов	fluorene ND
	108	ញ ក	bis(2-chloroethoxy)meth	y)methane	Q	448	818	phenanthrene B ND
	23 7 m	500	hexachlorobutadi	butadiene	Q N	198	828	dibenzo(a,h)anthracene ND
	,) 0 . 7 .	323	herachlorocyclopentadi	entadiene	2	378	838	indeno(1,2,3-cd)pyrene ND
	396	844		isophorone	Q	45B	848	pyrene ND
2	100	95B	nan	naphthalene	QN			
กร	: 4 : 5 : 2	B E	nit	nitrobenzene	2			
2	र स्ट्रांस्ट	, LARUSATE PECOVERIES	5318.					
	1, 3	BOOK DELO	RESULT					

FRUMBLE STATE FOR THIS REPORT

i(∵-biphenyl

dld-terphenyl

or it setsited at EPA detection limit method 625, (Federal Register, 10/26/84) high concentrations. vel unless otherwise specified. Sense be fluoranthene and benzo(k)fluoranthene co-elute. stan namber or refertion time on chromatogram ertötatanthracehe and chrysene comelute The posterior and the

2 062

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d≦∽ritrobenzene

2-fluarobiphenyl

Minimum detection n detected in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1). " of thiscene and phenanthiene comelute in high concentrations. value, less than method detection limit. limits should be multiplied by conc. factor. i e saturated FAC 108

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HO	C	

.t 32 .tlvt0 01/31/85	Analytical Serv Results by Sample	REPORT Sample	LAB # 86-01-242
The 15 section H20	FRACTION 04A Date % Time Co	TEST CODE MSNS S llected 01/30/86	FRACTION 04A TEST CODE MSNS S NAME GCMS Characterization-ABN Date % Time Collected 01/30/86 Category
12 - 13 - 14 - 1001242204 17 - 15 - 17 - 1	DATE ANALYZED <u>02/07/86</u>	UNITS 49/1	VERIFIED BY LKK
SCAN	СОМРОЧИО	RESULT	CONF REF T LEVEL CMPD
	No PCBs detected		

	LAB # 86-01-242	NAME Pesticides & PCBs by GC/MS Category	VERIFIED BY LAK COMPOUNDS DETECTED O	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1249 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
	REPORT Sample	ACTION 04A TEST CODE MS 608 Time Collected 01/30/86	ANALYST	NPDES SCAN EPA	2P 102P	3P 103P	4P 104P	5P 105P	18P 106P	19P 107P	20P 108P	21P 109P	22P 110P	23P 111P	24P 112P	25P 113P	
No.	Analytical Serv Results by S	FRACTION 04A Date & Time Coll	DATE EXTRACTED <u>01/31/86</u> DATE INJECTED <u>02/07/86</u>	COMPOUND RESULT NP	aldrin ND	dieldrin ND	chlordane ND	4, 4'-DDT ND	4, 4'-DDE ND	4, 4'-DDE ND	alpha endosulfan ND	beta endosulfan ND	endosulfan sulfate ND	endrin ND	andrin aldehyde ND	beptachlor ND	heptachlor epoxide ND
KADIA	FASE 33 FEVELVED, 01/31/86	347PLE 10 850103 H20	DATA FILE <u>25001242004</u> Tal FACTOR	O WAS SEEN SELVE	1F B3P	a.c.		2 2	065		Q 		1. ·	A 7	?		

LAB # 86-01-242	B NAME Pesticides & PCBs by GC/MS
Continued From Above	Category
Analytical Serv	FRACTION <u>04A</u> TEST CODE MS 60
Results by Sample	Date % Time Collected <u>01/30/86</u>
	05H E0103 H T T T T T T T T T T T T T T T T T T

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enotes reported in micrograms/liter unless otherwise specified. - scan number on chromatogram.

A POLITIONS FOR THIS REPORT.

of detected at EPA detection limit method 625, (Federal Register, 12/3/79)

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REPORT Results by Sample Analetical Serv

LAB # 86-01-242

NAME Method 625 Acid Compounds FRACTION OSA TEST CODE M625 A Date % Time Collected 01/29/86

Category

VERIFIED BY COMPOUNDS DETECTED MUL ANALYST INSTRUMENT DATE EXTRACTED 01/31/86 DATE INJECTED 02/07/86

LAK 0

S 2 일 2 일 RESULT 4-nitrophenol 2, 4-dinitrophenol 2-methyl-4,6-dinitrophenol pentachlorophenol phenol COMPOUND **60A** EPA **58A 59A** 64A **65A** NPDES SCAN 74 54 4 4 94 104 RESULT S Š 밁 밁 2 & trichlorophenol intero a methulphenol 2.chlorophenol 4 distiniophenol dimetry lphenol 01410 auf

RESULT

2

2 milliophenol

538 10-represol

rophenal

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specified time on chromatogram. objecs otheru

LAB # 86-01-242 Continued From Above	ACTION 05A TEST CODE M625 A NAME Method 625 Acid Compounds
Analytical Serv Results by Sample	FRACTION 05A TEST CODE M625 A

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Category Date & Time Collected 01/29/86

tel at FPA detection limit method 625, (Federal Register, 11/26/84).

in respent blank, background subtraction not performed

Minimum detection indicates dilution of sample if greater than one (1). salue less than method detection limit.

It be nottiplied by conc. factor.

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LAB # 86-01-242	ODE M625 B NAME Method 625 Base/Neutrals 01/29/86 Category	ANALYST WUL VERIFIED BY LAK TRUMENT FZ COMPOUNDS DETECTED Z	EPA CGMPOUND RESULT	61B N-nitrosodimethylamine ND	62B N-nitrosodiphenylamine ND	63B N-nitrosodi-n-propylamine ND	66B bis(2-ethylhexyl)phthalate 5	67B butyl benzyl phthalate ND	68B di-butyl phthalate 2.0	69B di-n-octyl phthalate ND	70B diethyl phthalate ND	71B dimethyl phthalate ND	72B benzo(a)anthracene A ND	73B benzo(a)pyrene ND	74B benzo(b)fluoranthene * ND	75B beazo(k)fluoranthene *ND	76B chrysene A ND	77B acenaphthylene ND	78B anthracene B ND	
REPORT Sample	Collected 01/2	INS	NPDES SCAN	418	43B	42B	138 1661	158	26B 1322	29B	24B	25B	58	99	7.8	86	188	28	38	``\
Serv Results by	TION OSA & Time Co	01/31/86 02/07/86	RESULT	QN	QN	QN	QN	QN N	묏	QN	Q.	ON	QN	QN	QN	QN	QN	QN .	GN	J
An⊴iytical Serv Resu	FRACTION 05A Date & Time	DATE EXTRACTED O	COMPOUND	acenaphthene	benzidine	2.4-trichlorobenzene	hexachlorobenzene.	hexachloroethane.	chloroethyl)ether _	2-chloronaph thalene	dichlorobenzene	3-dichlorobenzene	-dichlorobenzene	dishlorobenzidine	4-dinitrotoluene	dinitrotuluene .	diphoroglaydrazine.	Fluoranthene	ogl phenyl ether	
		18.42.92	C014F			: 2.4-tr	T.	£	g not give p	40 - Ch	^; 	en Fin		100 100 100 100 100 100 100 100 100 100	.				lotophenyl	

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22/2/2/2011

LAB # 86-01-242 Continued From Above	B NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene <u>ND</u>	fluorene ND	phenanthrene B ND	dibenzo(a,h)anthracene ND	indeno(1, 2, 3-cd)pyrene ND	pyrene <u>kup</u>	
REPURT ID 1e	FRACTION 05A TEST CODE M625 B Date & Time Collected 01/29/86	79B	808	818	828	838	848	
Serv Results by Sample	TEST llecte	88	32B	44B	19B	37E	45B	
, ilts by	05A ime Co	QN	Q	QN	SI	윈	S	
~ _	Z							
Analytical		-bromophenyl phenyl ether	s(2-chloroisopropyl)ether	1s(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene	isophorone	
not od totoko elektriski Resu	SAWLE ID STOID HED FRACTION Date & T	413 4-bromophenyl phenyl ether	428 bis(2-chloroisopropyl)ether	438 bis(2-chloroethoxy)methane	538 hexachlorobutadiene	938 hexachlorocyclopentadiene	isophorone isophorone	

REPRESENTED TO THE PROPERTIES

8.5B

S

nitrobenzene

2

naphthalene

366

RESULT	d5∹nitrobenzene <u>206</u>	2-fluarobiphenyl <u>158</u>	نام 314-terphenyl 31 <u>2</u>	d10-biphenyl
3000 69	. ·	f .	12 - 12 - 424	
7.1.7	• • •	1 q 1 d		

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vite resorted in <u>engli</u> unless otherwise specified. • Jetected of EPA detection limit method 625, (Federal Register, 10/26/84). control to relugion than and benzo(k) fluoranthene comelute. harder or retention time on chromatogram.

,high concentrations.

en, evaluatione and chrysame comelute

FRACTION 05A TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected 01/29/86 Category Continued From Above LAB # 86-01-242 Serv REPORT Results by Sample Analytical Serv 02H 101134 11 37.55

CARROLL ASSESSED MESSESSES

attendere and phenanthrene comelute in high concentrations.

Category

Minimum detection istacted in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). satinated value, less than method detection limit.

- should be multiplied by conc. factor.

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Analytical Serv REPORT Results by Sample

LAB # 86-01-242

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FRACTION 05A TEST CODE MSNS S NAME GCMS Characterization-ABN Date % Time Collected 01/29/86

UNITS UG/1

VERIFIED BY LAK

DATE ANALYZED 02/07/86

No PCBs Detected

COMPOUND

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REF CMPD CONF LEVEL

RESULT

ALESSESSES RECESSOS AND DESCRIPTION OF THE RECESSOR FOR THE	
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CSS SS TO THE PROPERTY OF THE SAME OF THE	

LAB # 86-01-242	NAME Pesticides & PCBs by GC/MS Category
cal Serv REPORI Results by Sample	FRACTION 05A TEST CODE MS 608 Date & Time Collected 01/29/86
Analyti	

ву <u>сак</u> ер <u>о</u>	RESULT	QN	ND	GN	QN	ÜN	QN	IND	NO	SN	GN	ND	ND	
VERIFIED BY COMPOUNDS DETECTED	COMPOUND	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
MUL	COS													
ANAL.YST	SCAN EPA	102P	103P	104P	105P	106P	107P	108P	109P	1108	1116	1126	1138	
	NPDES	26	ЗР	4P	5P	18P	19P	20P	21P	22P	23P	24P	25P	
186														
<u>01/31/86</u> 02/07/86	RESULT	QN	ON	QN	ΩN	ON	QN	NO	QN	ON	ON	051	ON .	QN.
DATE EXTRACTED <u>01/31,</u> DATE INJECTED <u>02/07,</u>		aldrin ND	dieldrin	chlordane ND	4, 4'-DDT ND	4, 4'-DDE ND	4, 4'-DDD ND	alpha endosulfan <u>ND</u>	beta endosulfan <u>ND</u>	sulfate	ON utipu-	GN apphyaple nimbed	ļ	eprinde
	A COMPOUND RESULT	drin	drin	dane	raa-,	-DDE	aaa-,	endosulfan	endosulfan	Fate		aphqaple	hlor	x 1 de

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REPUEL Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

SAYSTE 10 650101 H30

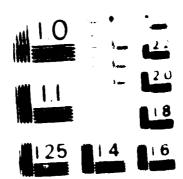
FRACTION 05A TEST CODE MS 608 NAME Pesticides & PCBs by GC/NS Date & Time Collected 01/29/85

A TO DEFINITIONS FOR THIS REPORT. (c) TES

Statt = scan number on chromatogram.

(4) " not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in micrograms/liter unless otherwise specified

INSTALLATION RESTORATION PROGRAM PHASE 2
COMFIRMATION/QUANTIFICATION STAG (U) RADIAN CORP
AUSTIN TX DEC 87 F33615-83-D-4881 70-0198 442 2/7 UNCLASSIFIED F/G 24/7



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Results by Sample Analytical perv

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cted of 30.56	्धानमा स्टाप १८४ मिलाल
Date & lime Collected of 30 bc	DATE EXTRACTED 01/31/86
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COMPOUNDS DETECTED

REGULT	E E	=======================================	317	77	7	
AMO O MAL	4- natrophenol	2.4 dimitrophend	2-methyl: 4.6-dimit:ophenol	pentachicropheno]		
ጥ ማ	284	54A	४ ००	4 4	654	
RESULT NPDES SCAL	٠ د	4.C	4 4	4	104	
RESULT	Z	Q Z	Z	Q Z	QN	51
COMPOUND RESULT	2.4.6-trichlorophenol ND	4-chluru-3-methylphenol ND	c'-chlorophenol ND	2.4 dichlorophenol ND	2. 4-dimethylphenol ND	
	Ì	enol		enol	enol	ı

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RESULT	C ii 2 + 	→ ' 	egi P	
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PASE 44 RECEIVED: 01/31/85

REPUK Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

SAMPLE 10 850107 H20

FRACTION 06A TEST CODE M625 A NAME Method 625 Acid Compounds Date % Time Collected 01/30/86

👯 🖰 not detected at EPA detection limit method 625, (Federal Register, 11/26/84) SU^{-1} detected in reagent blank; background subtraction not performed $J^{(\omega)}$ estimated value, less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor CCRC FACTOR

Minimum detection

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Analytical Serv REPORT Results by Sample

LAB # 86-01-242

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Section 1

CONTRACTOR STATEMENT STATEMENT

3 NAME Method 625 Base/Neutrals Category	VERIFIED BY LAW F2 COMPOUNDS DETECTED 2	COMPOUND	N-nitrosodimethylamine NO	N-nitrosodiphenylamıne เบ	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate	butyl benzyl phthalate	di-butyl phthalate	di-n-octyl phthalate <u>MD</u>	diethyl phthalate <u>ND</u>
TEST CODE N625 B ected 01/30/86	ANALYST INSTRUMENT	NPDES SCAN EPA	B 61B	B 62B	869 g	13E 1664 66B	B 67B	B 1325 68B	869 a	в 70в
FRACTION OGA TEST CODE M625 Date & Time Collected 01/30/86	STED <u>01/31/86</u> STED <u>02/07/86</u>	RESULT NPDE	nene ND ; 41B	line ND 43B	tene ND 42B	ue ND	name ND 15B	ther ND 26B	1998 29B	rene ND 24B
	<u>26</u> DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidi	1, 2, 4-trichlorobenz	hexachlorobenze	hexachloroethane	bis(2-chloreethyl)et	2-chloronaphthalene	1,2-dichlorobenze
S479LE ID 850107 H20	CATA FILE <u>32001242506</u> C FACTOP <u>1</u>	SCAR EPA	18	a 6	88 1,	86	128	15B b1s	308	8 8 8
<u>।</u> 3. 3. 3.	44 07 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	56 830V	OS r→	63 *†	±€.3	00 27 58	2	07	27	#1 +1, 7.1

dimethyl phthalate

71B

25B

2

1.3-dichlorobenzene

3.63

2.7B

72B

61 10

20

1.4-direjorobenzene

7.38

6B

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benzo(a)anthracene

믭

adento(a) barene

benio(b)fluoranthene

benzorkerlogianthene

일 참 : 릴 :

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(14)

acenaphthylen.

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TEST CODE M625 B NAME Method 625 Base	FRACTION 06A TEST CODE M625 B Date & Time Collected 01/30/86	FRACTION O6A Date & Time Co	HSO	SANPLE ID 850107 H20
LAB # 86-01-242 Continued From A	REPORI Sample	Analutical Serv Results by Sample		PAGE 45 RECEIVED: 01/31/85

ACCOUNT SERVICES SERVICES CONTROL

IVED: 01/31/86	Results by Sample	Continued From Above
LE 1D 850107 H20	FRACTION 06A TEST CODE M625 B Date & Time Collected 01/30/86	TEST CODE M625 B NAME Method 625 Base/Neutrals ected 01/30/86 Category
A Three documents of the Paris	100 CM 1004+0	-

1.43	+15	415 4 tromophenyl phenyl ether	QN	88	79B	benzo(gh.)perylene	S
138	423	bisks chloroisopropyl)ether	Q	328	808	fluorene	20
106	80 t	bis(2-chloroethoxy)methane	QN	448	8 1B	phenanthrene B	2
348	ឧ	hexachlorobutadiene	Q	198	828	dibenzo(a, h)anthracene	Ž
20 10 10	a 86	herachlorocyclopentadiene	ON	378	838	indeno(1,2,3~cd)pyrene	Z
(a)	인 : :	1 sophorone	QN	453	8413	pyrene	ND
3 to 1	558	naphthalene	QN				
100 100 100 100 100 100 100 100 100 100	20 6 7	nitrobenzene	Q				

SCHRUGATE RECOVERIES

RESULT	d5-nitrobenzene <u>220</u>	2-fluorobiphenyl 173	d14-terphenyl 155	410 biphenyl,
SCAR CODE	615	77 (10) (20)	12 0% 13 14 14	**

THIS BEPORT 二十二日日 日本七 日本

10:32(84) conted in $\underline{uq/1}$ unless otherwise specified that the test from the set by the detection limit method 6.25 (bedetal From the high contentiations (Lubranthene and benzo(k)+lubranthene corelate ter or retention time on chrossogram salunthracene and chrysene corelate

2.078

PASE 47 RECEIVED: 01/31/85

Analytical serv

Results by Sample

LAB # 85-01-242 Perticued rhom Above

SAYRLE 10 850107 H20

FRACILON OEA 1EST CODE MET LINAME Method 625 Base/Neutrals Date & Time Collected 130/86

finimum detertion indicates dilution of sample if greater than one (1) S = anthracene and phenanthrene co-elute in high $\sim \sim c_{\rm e}$ tion SC = detected in reagent blank, background subtraction cut perform Jamestimated value, less than method detection limit limits should be multiplied by conc. factor

LAB # 86-01-242	ACTION 6A TEST CODE MSNS S NAME CONSTRUCTORIZATION-ABNITE & Time Collected C. 20 00	VERIFIED BY AA	LEVEL FREE	
rak	200 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	., i S <u>uq. 1</u> _	RESULT.	
REPUR: y Sample	1EST CUES M Offected Const			
Analytical ber Mis.ib.y Sample	FRACTIUM 6A Date & lime C	DATE ANALYZED 02/02/80	СОМРОЧИФ	No PCBs Detected
68.18.17. Hatta	07H /01015 T = 14% H20	140 # 000124000000000000000000000000000000000	N408	

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13. 13. 14. 13. 14. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13	21, 31785	Analytical Serv Resu	Its by	- よっ (1) (2) (2) (3) (4) (4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	<u>.</u>	A B	
	850107 H20	FRACTION OGA Date & Lase	N OGA 1551 Lime Collected		JL MS 608 NAI 01/30/85	Court MS 608 NAME Pesticites a rubs by 60/MS 01/30/86 Category	60 M
DATA FILE S. FASTGR	E 22001242006	DATE EXTRACTED O DATE INJECTED O	<u>01/31/86</u> 02/11/8	٠.	AUNLYST	VERIFIED BY COMPOUNDS DETECTED	इस ।
7 4 6 6	(FA	R GNUDGND	REGULT R	NPDES SCAN	AN EPA	COMPOUND	RESULT
	C. C.	aldrin	GN	2P	102P	alpha BHC	N
	d.03	dieldrin	QN .	dπ	103P	beta BHC	밁
	315	chlordane	QN	4 P	104P	gamma BHC	N
	a C	4, 4'-DDT	QN	5P	105P	delta BHC	S
	G. J. J.	4,4'-DDE	Q	18P	106P	PCB-1242	킬
	d; 	4, 4'-nbb	Q	19P	107P	PCB-1254	110
	Ų,	_ negrosontan	QN	20P	108P	PCB-1221	OZ.
	0 ,	beta endosulfan	QN	21P	109P	PCB-1232	202
		ordosulfan sulfate	LID	d⊖5	110P	PCB-1248	CIN.
	6. 2	endrin	QN .	23P	111P	PCB-1260	91
	•	end"in aldehyde	QN	24P	112P	PCB-1016	777
	₹ 	heptachlor	Q	25P	113P	tuxaphene	2
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PAGE 50 RECEIVED, 01/31/85

REPORT Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

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SAMPLE 10 850107 HR

FRACTION <u>06A</u> TEST CODE MS 608 NAME Pesticides % PCBs by GC/MS Date & Time Collected <u>01/30/86</u>

AUN DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

R) : not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in micrograms/liter unless otherwise specified.

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Serv REPURI Results by Sample Analytical Serv

LAB # 86-01-242

SAMPLE ID 850108 H20

FRACTION O7A TEST CUDE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86 Category

DATE EXTRACTED DATA FILE <u>90001242007</u> COMC. FACTOR

ATE EXTRACTED 01/31/86 DATE INJECTED 02/11/86

5100 **ANALYST** INSTRUMENT

3

VERIFIED BY LAK COMPOUNDS DETECTED

RESULT	Q	Q	S	011	<u>a</u> N	
CGMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dınitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
NPDES SCAN	7.4	SP A	44	94	104	
RESULT	CIN .	QN -	ND	QN	92	011
COMPOUND	2,4,6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2,4-dimethylphenol	2-nitrophenol
EPA	21A	V 28	244	3. 1. 1.	0.4A	576
RPDES SCAN	en en	rt m	1.4	4 00	ज ()	र य
	reserra	2	08	3 \$\$\$\$	KKK K	

BURNIGANE PECOVERIES

RFSUL T		45	∵	i
COMPOUND	d5-pheno!	2-fluorophena:	2,4.5 tribromophens!) ouald-Sp
80A1 000R	## 40 40 ## ##		(C)	100 d

SCAR a scan number or retention time ug/1 unie AND DEFINITIONS FOR THIS REPORT esults reported in

paryroads & n chromatogram otheru

ROCCOCC CONTROL SECTION DESCRIPTION

RECEIVED: 01/31/85

REFURI Analytical Sarv Results by Sample

LAB # 86-01-242 Continued From Above

SANSLE 10 850108 H20

FRACILUN 07A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86

Minimum detection

NO :: not detected at EPA detection limit method 625, (Federal Register, 11/26/84)

El. - detected in reagent blank, background subtraction not performed Um estimated value: less than method detection limit

indicates dilution of sample if greater than one (1)

factor limits should be multiplied by conc.

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PRACTICAL PROPERTY PRACTICAL COLLECTED PARTITION OF A COMPOSITION OF	ED 3	01/31/85		Serv Results by	REPURI Sample		LAB # d6-01-245	
Ann. 1970 Ann.	<u>_</u>	Served Hall	FRAC.	IUN O/A	TEST CUDE		NAME Method 62'S Catego	
1	110 - 21 4 - 124 - 4		Latescien El Italien				または、SelfentはWO) HI HI M J.C	दें।
Second There was there are benefit and the second the second the second property and the second the		\.\frac{\tau}{2}	JEOO JOHO O			f FA		
The actual problem where the control of the control	(4	<u>.4</u>	e ca		4113	€1B	nitiosodimethylamine	
The achieve the community of the control of the con		<u>m</u>	7 ::0	Qi Z	40B	6.2B	t mitrosodiphenylamine	02
The control of the co		n) U	-fritchloroben	2	8.54 8.54	63B		
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All bottol chickens that is the complete and the complete		12	+-	ON	158	a. ,	primalate	
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	X		. : . : a e	ate : Ime Collected oi 30.56	30,56 30,56	whic Method cala Base/Neutrals Category
7	* * * * * * * * * * * * * * * * * * * *		e Gr	35	<u>=</u> ?	<u> </u>
* 3 *	# #2 **	Taggar (Bd. W. T. C.) a	Ŝ	31, 7	a ce	fluurene 11D
2.7 2.7 2.8 2.8	 2 2 1	all control or quarterner	울:	448	8113	phenanthrene B NO
7		terulistobutadiene	2	198	828	dibenzu(a, h)anthracene ND
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2) 14]	13 7 v	Lophorone	QN	45B	848	pyrene ND
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nitrobenzene

RESOLUTION CONTRACTOR	d% nitrobenzene 85	79 Thresholds sould	114 terphenyl 37	ato biphenyl
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PAGE 55 RECEIVED: 01/31/85

Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

2000

SAMPLE ID SSOINS HEU

FRACTION O7A TEST CODE M625 B NAME Method 625 Base/Neutrals Date % Time Collected 01/30/86

Category

Minimum detection $\mathrm{St.} \approx \mathrm{detected}$ in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1). 3 m sothracene and phenauthrene comelute in high concentrations. I mestimated value, less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR.

85.15.10 G37.40 85.14.68 C1 31.85	Arsigtical Serv Results by Sample	KEFUrl Sample	_A6 # 86-21-242
THE SOLDER OF HISTORY	FRACIIUN O/A Date % Inme Co	FRACIIUN 0/A - IESI CUDE MSNS S Date % Inme Collected 01/30/86	FRACIIUN 0/A - 1ESI CUDE MSNS S NAME GEMS characterization-ABC Date % Iime Collected 01/30/86
0.30 # <u>1991240.07</u> PARFLY SIDE 1	DATE ANALYZED <u>02: 11786</u>	1/80 21/NU	VERTETET BY LAND
90 440 400	GNGO HAOD	RESULT	1965 - 46 F
	No Pubs Detected		

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S. C. C.	

LAb # 86-01-242	NAME Pesticides & PCBs by GC/MS Category	VERIFIED BY LAK CUMPOUNDS DETECTED 0	COMPOUND RESULT	alpha BHC ND	beta BHCND	gamma BHc	delta BHC ND	PCB-1242ND	PCB-1254 ND	PCB-1221 14D	PCB-1232 ND	PCB-1248 ND	PCB-1260100	P.CB-1016	in analytem to the second	
REPUR] Sample	lest cube MS 608 lected 01/30/86	ANAL VST	MPDES SCAN EPA	2P 102P	ЗР 103Р	4P 104P	5P 105P	18P 106P	19р 107Р	20P 108P	21P 109P	22P 110P	23P 111P	24P 112P	25P 113P	
Analytical Serv Results by S	Date & Time Collected 01/30/86	DATE EXTRACTED 01/31/86 DATE INJECTED 02/11/86	COMPOUND RESULT NP	aldrin ND	dieldrin ND	chlordane ND	4, 4'-DDT ND	4, 4'-DÜE ND	4, 4 ' - DDD ND	alpha endosulfan ND i	beta engosulfan ND	endosulfan sulfate ND	endrin ND	endrin aldehyde	heptachlor ND	haptachlor epoxide ND
		FATA FILE \$5001242007 COMC FACTOR	RPTES SCAL EPA CO	લ જ છે. લ જ છે.	10P	91P	475 d.	0. 0. 0. 0. 0.	a. it	11F 950	a. 4. d.	dit.	1.46	न्द्र कड़ी	16.9 10.09	17P 101P hy

PAGE 58 RECEIVED: 01/31/85

Analytical Serv

Results by Sample

LAB # 86-01-242 Continued From Above

SAMPLE 1D 860108 H20

FRACTION O7A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 01/30/86

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

All results reported in micrograms/liter unless otherwise specified.

140 = not detected at EPA detection limit method 625, (Federal Register, 12/3/79).

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PAGE 59 RECEIVED: 01/31/86

Analytical Serv Results by Sample

LAB # 86-01-242

2000

SAMPLE ID 850105 HZD

FRACTION OBA TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86 Category

Category

DATA FILE <u>\$9001242008</u> CONC FACTOR

DATE EXTRACTED 01/31/86
DATE INJECTED 02/11/86

5100 INSTRUMENT ANAL YST

VERIFIED BY COMPOUNDS DETECTED

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RESULT	N	QN	QN	ND	ო
CGMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	ohenol
EPA	58A	59A	60A	64A	65A
SCAN					456
PDES	7A	5A	4	9.A	10A 456 65A
RESULT NPDES SCAN	QN	ON N	QN	QN	QN
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2,4-dimethylphenol
EPA	21A	224	246	314	344
NPDES SCAU	114	88	<u>₹</u>	.91	ថ ២

SURREGATE PECCOVERIES

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2-nitrophenol

d3-phenol	**************************************	
2, 4,6-tribromophenol	1031 463	
2-fluorophenol 109	GENERAL TELES	
d5 phenol 111	न क्षेत्र के किया के किया के किया किया किया किया किया किया किया किया	
COMPOUND	BOOK NACE	

SCAN pprox scan number or retention time on chromatogram ug/l unless othery AND DEFINITIONS FOR THIS REPORT esults reported in E3101

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Analytical Serv

Results by Sample

LAB # 86-01-242 Continued From Above

SAMPLE 10 850105 H20

FRACTION OBA TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86 Category

Minimum detection 👯 thot detected at EPA detection limit method 625, (Federal Register, 11/26/84) ${
m SL}^{-m}$ detected in reagent blank) background subtraction not performed. indicates dilution of sample if greater than one (1). 3 m estimated value, less than method detection limit limits should be multiplied by conc. factor. CENC FACTOR

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(IV) 2 2 2 2 9 길 <u>=</u>; LAK RESULT 1 긜 3 Ξİ NAME Method 625 Base/Neutrals VERIFIED BY COMPOUNDS DETECTED N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodinn-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-butyl phthalate di-n-octyl phthalate dimethyl phthalate diethyl phthalate ALLED TO THE PROPERTY. benzu(a)unthracene anthracene benzo:b)flooranthene benzalkatiograpthene LAB # 86-01-242 ategoru COMPOUND M 5100 TEST CUDE M625 B Date % Time Collected 01/30/86 61B 62B 63B 66B INSTRUMENT EPA 67B 69B **70B** 7 1 B 357 ر ا ا 683 30 . 4 E 1. 1. 9. 2 **ANAL YST** 3 3 1 NPDES SCAN 1630 REFUEL Results by Sample 13B 41B 43B 42B 15B 56B 29B 24E ១១៩ <u>6</u> <u>ن</u> ا کا 3/ 7 11 ٺ 22 DATE EXTRACTED 01/31/86
DATE TRUECTED 02/11/86 밁 RESULT FRACILUN OBA 밁 2 2 일 S 202 2 07 Ξ Analutical Serv acenaphthene 4 trichlorobenzene exach lorobenzene penil 1 ine herechloroeth ane niotosthyllether - Inforchaphthalene of pharmal athan **GENERAL DESIGNA** . را) 5000154200B LAYPLE IN SAULUS HELL ₹ a. iu -4 25 23 61 63 (2) . **C** , 1.4 1.4 Pala alle FACTOR 11**4**00 1. 新聞用 のじて **C** 1

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Secretary Sylvense

ar en				Analutical Serv Results	Serv Results by Sample	REFURI In Le	LAB # 86-01-242 Continued From Above
የኢትዮጵያ የ	31 33 A. C.		H-0	FRACTION OR	A TEST	FRACILON OBA TEST CODE M625 B	NAME Method 625 Base/Neutrals
ሲያኛምስ	(G *†	814·	4-bromaphenyl phenyl	2	28 <u>0N</u>	798	benzo(ghi)perylene ND
	29 (8)	6 日 †	bisc2-chloroisopropyl)e	ON Jether NO	328	808	fluorene ND
`	a 01	67 -:	bis(2~chloroethoxy)metl	ethane ND	<u>D</u> : 44B	818	phenanthrene B 140
ا در درون	23 77 73	64 74 73	hexachlorobutadi	adiene ND	D 19E	823	dibenzo(a, h) anthracene
_የ ጎለጉ	63 63 63 63 63 63 63 63 63 63 63 63 63 6	(T)	hexachlorocyclopentadi	<u>त्रा</u> enaibe	378	838	indeno(1, 2, 3-cd)pyreneND
2	ធ ខា	े •+	oydosı	rone	ND : 45B	848	dv. aneryq
09 09	398	8.5.3	naphtha	lene	Q		
14	9QT	g ¥	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		 c		

SURROGATE RECOVERIES

8.5B

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nitrobenzene

RESULT	d5 nitrobenzene 125	2-fluorobiphenyl66	d14-terphenyl 38	d to-b tpheny l
SCAN CODE	578 551	551 SSS	14.1 SSS	 26 22

100 of most detected of PPA detection limit method 625. (Peaeral Register, 100,00,899) high concentrations Ing I unless otherwise specified * in testional porabilitaria and benzo(k) flooranthene comeluta or sectablished from one chromatogram entotalsauthracene and chrysene comelute · 111 Charles and a region

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RFURI Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

SAMPLE 1D 850105 H20

FRACTION OBA TEST CODE M625 B Date & Time Collected 01/30/86

NAME Method 625 Base/Neutrals Category

Minimum detection BL ** detected in reagent blank; background subtraction not performed indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations J = estimated value, less than method detection limit. factor linits should be multiplied by conc CONC. FACTOR

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LAB # 86-01-242	TEST CODE MSNS S NAME GCMS Characterization-ABN llected 01/30/86	UNITS U9/1	CONF REF RESULT LEVEL CMPD	
Analytical Serv Results by Sample	FRACTION OBA TEST CODE MSNS Date & Time Collected 01/30/86	DATE ANALYZED <u>02/11/86</u> UNITS	COMPOUND	No PCBs Detected
PAGE 64 RECEIVED: 01/31/86	SAMPLE 1D 850105 H20	CHRO # <u>5001242C08</u> SAMPLE SIZE 1	SCAN .	

LAB # 86-01-242

REPURI

Analytical Serv

NAME Pesticides & PCBs by GC/MS VERIFIED BY LAK DS DETECTED 0 2 뫼 2 RESULT TID. COMPOUNDS DETECTED toxaphene alpha BHC gamma BHC delta BHC PCB-1242 PCB-1232 PCB-1248 PCB-1260 PCB-1016 beta BHC PCB-1254 PCB-1221 Category COMPOUND TEST CODE MS 608 FRACTIUM OBA TEST CUDE MS 60 Date & Time Collected 01/30/86 ANALYST 102P 104P 105P 103P 106P 107P 108P 109P 110P 111P 112P 113P NPDES SCAN Results by Sample 45 25 35 <u>ئ</u> (11 186 195 20F <u>-</u>-GCC. DATE EXTRACTED 01/31/82 DATE INJECTED 02/11/86 RESULT 2 S 2 밁 Ż 밀 2 Z 밁 Ş 밁 밁 aldrin dieldrin chlordane 4, 4'-DDE 4, 4'-DDD alpha endosulfan beta endosulfan heptachlor epoxide 4, 4'-DDT endosulfan sulfate endern aldehyde endrin heptachlor COMPOUND 50001242008 WAYLE 10 850105 HED G. n. 15 15 û. ⊖ ≎ 71b n. 63 2 0. 11 (*) a. 0 . . 47 DATA FILE CRC FACTOR NACS SEED 1. (E. 1. VED): 0.13 : ; <u>[</u> ù. Ţ ii. 097 2

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REPORT Analytical Serv Results by Sample

LAB # 86-01-242 Continued From Above

SAMPLE ID 860105 H20

FRACTION OBA TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 01/30/86

AND DEFINITIONS FOR THIS REPORT. ROTES

SCAR = scan number on chromatogram.

ोए क not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified

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REFURI Resurts by Sample Analytical Serv

LAB # 86-01-242

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SAMELE ID dup anal 625

FRACTON 49B TEST CUDE MAKE A NAME Method 625 Acid Compounds Date Time Collected not specified Category

Category

\$CD01242003 DATA FILE FACTOR

DATE EXTRACTED 01/31/86
DATE INJECTES 02/11/86

AMALYST INSTRUMENT

M 0014

VERIFIED BY LAK COMPCIUNDS DETECTED 밀

2-methyl-4,6-dinitrophenol

60A

4A

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65A

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4-dimethylphenol

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pentachlorophenol

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2,4-dinitrophenol

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4-nitrophenol

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COMPOUND

NPDES SCAN

RESULT

2.4.6 trichlorophenol 4-chloro-3-methylphenol 2 chlorophenol 2.4-dichlorophenol COMPOUND 1 1 4.7 NPCES SCAL 2 099

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SCAN H SEAT NUMBER OF CE. 450 Per Rel 1508 10F 1408 esults reported to

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KEFURI Results by Sample

LAB # 86-01-040 Continued From Above

Minimum detection 80 m not detected at EPA detection limit method 625, (Rederal Register, 11 26,84) Bu a detected in reagent plank, background subtraction not performed indicates dilution of sample if greater than one (1) I m estimated values lass than method detection limit limits should be multiplied by conc. factor FOLDAR DEPO

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Analytical Serv REPORT Results by Sample

LAB # 86-01-242

NAME Method 625 Base/Neutrals led Category	WUL VERIFIED BY LAK 5100 COMPOUNDS DETECTED O	COMPOUND	N-nitrosodimethylamine NO	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamın⇔ ND	bis(2-ethylhexyl)phthalate ND	butyl benzyl phthalate ND	di-butyl phthalate ND	di-n-octyl phthalate	diethyl phthalate <u>ND</u>	dimethyl phthalate NI	benzo(a)anthracene A <u>M</u>	gN - Aleand (e) ozuba	benza(b)fluoranthene 145	Denzo(E) flogsanthens sample and med	(1) 10 数日本多种证明 1	a enaphthytene j t.D.	(1) I Homeward and I in the
M625 B specif	ANALYST INSTRUMENT	SCAN EPA	61B	62B	638	66B b	678	688	698	708	718	720	22.2	7+B			Jez	7.5B
TEST CODE	N	NPDES SC	411	4 3B	42B	138	158	268	29B	2413	258	58	en.	7.6	9 E	163	9 7	38
RACTIUM <u>09B</u> TEST ate & Time Collected	01/31/86 02/11/86	RESULT		QN	ON	S	QN	Q		QN	<u>an</u>	32	ND	GN	QN	<u>G</u> FI	QN	QN
ورجو مس					,		,	i	1	1	3			1	i			
FRACT	DATE EXTRACTED DATE INJECTED	опирами	acenaphthene	benzidine	4-trichlorobenzene	hexachlorobenzene	hexachloroethane _	-chloroethyl)ether _	chloronaphthalene _	2-dichlorobenzene	3-dichlorobenzene	4-dichlorobenzene	anchiorobenzidine	Sinitrotoluene	annitiotoluene	- autreuphylis oggr	rlooranthene	ogliphenglether
	DATE EXTRA DATE INJE	COMPOUND	cenapht	en 2 1	1, 2, 4-trichlorobenzene	xachloroben	xachloroet		2.chloronaphthalene	1, 2-dichlorobenzene	-dichloroben	dichlorobenz	hlorobenzi	initrotol		, thuydra		e Thunda
FRACI	EXTRA	SERIA EPA COMPOUND	cenapht	en 2 1		xachloroben	xachloroet	O)	:38 2-chloronaphthalene		-dichloroben	dichlorobenz	2 anchlorobenzi	initrotol		, thuydra		e Ipang

REPUHI	y Sample
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Serv	Results
Analytical	

centinued From Above B # 86-01-242

FRACTION 09B TEST CODE MAIN BY NEW Method 625 Base/Neutrals Date & lime Collected not specified

benzo(ghi)perylene 19b ΘB dia ... Leura [huand [huan ter

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fluorene

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phenanthrene B

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indeno(1, 2, 3-cd)pyrene

dibenzo(a, h) anthracene

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BOB 2 N nlurosepropyl) ether

Q bisit (hiloroethoxy) methane

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Results by bample Cautical Serv

Centinued From Above LAB # 86-01-242

FRACILUM 09B | LEST COURT MORE BY NAME Method 625 Base/Neutrals Date & Time Collected not specified (ategory

of blank background subtraction not performed substraine comelute in high concentrations . This method detection limit

Minimon detertion s filution of sample of greater than one (1) . State by conc. Factor

LAB # 85-01-242	FRACTION 09B TEST CODE MSNS S NAME GOMS Characterization-ABN Date & Time Collected not specified Category	VERIFIED BY LAK	CONF REF LEVEL CMPD	
URT	TEST CODE MSNS S NAME Nected not specified	UNITS 44/1	RESULT	
Analytical Serv Results by Sample	FRACTION 09B Date & Time Co	DATE ANALYZED 02/11/86	COMPOUND	No PCBs Detected
PAGE 72 RECEIVED, 01/31/85	Sample ID dup anal 525	CH30 # <u>5001242009</u> SAMPLE 912E 1	BCAN	

Section of the sectio

FRACTION 09B TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS LAB # 86-01-242 Category Date & Time Collected not specified REFURI Results by Sample Analytical Serv SAMPLE IN due anal. 625

LAX O VERIFIED BY COMPOUNDS DETECTED WJL ANALYST DATE EXTRACTED 01/31/86
DATE INJECTED 02/11/86 50001242009 DATA FILE COMO FACTOR

QN C 물 2 밁 2 2 2 2 2 LID QIA! S RESULT PCB-1260 PCE-1016 alpha BHC gamma BHC delta BHC PCB-1242 PCB-1254 PCB-1232 PCB-1248 toxaphene beta BHC PCB-1221 COMPOUND EPA 102P 103P 104P 105P 106P 107P 108P 109P 110P 1111 1126 1136 NPDES SCAN 2 **4**P g d 20P 21P 건간 23P 34P 900 000 36 18P 196 S 2 밀 RESULT S 2 S ΩN 2 2 2 2 2 aldrin 4, 4'-DDD epixode Josephen 4,4'-DDE alpha endosulfan heta endosulfan endosultan sulfate nidrin action aldehyda dieldrin chlordane 4, 4'-DDT heptachlor COMPOUND 0.00 () 0 (*) EPA d-5€ ر ج آب A. 100 1000 HULP 000 dO6 71P 000 0. () dto NEDER SCAR (1) (1) (2) (:_ :: (<u>L</u> 4. 4. ŭ. 三 ű. Ö 17

Analytical Serv Results by Sample

LAB # 86-01-242 Continued From Above

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FRACTION 09B TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

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(Federal Register, 12/3/79) Ail resolts reperted in micrograms/liter unless otherwise specified 19 a mut detected at EPA detection limit method 625,

Amalytical Serv Results N	FRACTION OYA
	ESO BALES ALLIES (I) ATHAMS

HEMON! by Sample

LAB # 86-01-242

INSTRUMENT DATE FXTRACTED 01/31/86
DATE INJECTED 02/11/86

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VERIFIED BY LAM COMPOUNDS DETECTED

PESULT	110	4	74.	175	5.0	
COMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
MPDES SCAN	7A 475	54 965	44 1054	94 116B	104 455	
RESULT	69	100	08	57		6 7
GOMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2 4 dichlorophenol	2 4 dimethylphenol	D-nitrophenol
स्थ्य	714	4 000	<u>त</u>	भार	5	र्द १: जी
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PROGRAMMENT CONTRACTOR CONTRACTOR

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REPORT Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

Same ID matrix spike 625

FRACTION 09A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

Minimum detection more detected at EPA detection limit method 625, (Federal Register, 11/26/84) ${\rm EU} = {\rm detected}$ in reagent blank; background subtraction not performed indicates dilution of sample if greater than one (1) of the estimated value, less than method detection limit limits should be multiplied by conc. factor.

LAB # 86-01-242

REPORT

Analutical Serv

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72 110 NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY butyl benzyl phthalate phthalate æ ·ţ N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate di-butyl phthalate phthalate diethyl phthalate \Box ar enaph thy Lene enzo(a)anthracene Thd(F)Ozuaq bearo(b) fluoranthang benzo(k)fluoranthene auar haga anthracene Category di-n-octyl dimethyl COMPOUND 5100 3 a d Specifi TEST CODE M625 B EPA 61B 62B 63B 66B 67B **889** 69B **70B** 72B 73B 74B 758 740 77B INSTRUMENT 71B 780 ANAL YST Date & Time Collected not 1629 C061 1827 1193 210 1737 919 1614 NPDES SCAN 1060 066 931 561 1531 1291 1821 16.21 Results by Sample 43B 268 298 103 33 413 13E 153 258 63 42B 55 243 733 9 23 (1) 01/31/86 DATE INJECTED 02/11/86 95 50 2 83 FRACTION 09A RESULT 83 75 80 85 103 T 71 81 71 DATE EXIRACTED 1, 2, 4-trichlorobenzene hexachlorobenzene hesachloroethane chloronaphthalene 1, 2-dichlorobenzene i. 4-dichlorobenzene acenaphthene benzidine ais(2-chloroethyl)ether 2-dichlorobenzene dichlerobenzidine 4-dimitratoluene J-dinitrotuluene -luoranthene ... ricrophengl phengl ether COMPOUND हार कर्रावेड रावार 2000 FRIORS 151 121 **1** 60 (0) 0 ₽3 0 1 . . . ; ; en En <u>ن</u> ن 30 五三年 经订合 **工程公司** 的图形 1943 ... , in 17 c : es ,--J : + 109 2

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Analytical Serv REPURT Results by Sample

LAB # 86-01-242 Continued From Above

ASSAM CARRENTAL PERSONAL CRASSES

CONTRACTOR SOCIAL CONTRACTOR

Cample 1D mathix spike 625		x splie 625	-RACTION 09A TEST CODE M625 B N Jate & Time Collected not specified	TEST CODE lected not	M625 B specific	TEST CODE M625 B NAME Method 625 Base/Neutrals ected not specified Category
145 1118	-113	4-bromophenyl phenyl e	ther <u>76 </u>	83 2376	79B	benzo(ghi)perylene 69
555 AS1	607	bis(2-chloroisopropyl)e	ether 93 i	32B 1040	808	fluorene 85
ह <u>ाक</u> 801	ម្ន	bis(2-ch]oroethoxy)methane	thane 78	44B 1192	818	phenanthrene B 91
348 Z14	839 839	hexachlorobutad	liene <u>72</u>	198 2280	82B	dibenzo(a, h)anthracene 71
253 880	53B	hexachlorocyclopentad	liene 3	376 2269	838	indeno(1, 2, 3-cd)pyrene 89
288 614	03 *T ()	isopho	11 BS 1	45B 1420	848	pyrene 79
# 100 m	558	naphtha	lene 74			
©66 80±	83 E	nitroben	7000			

CHARBOATE RECOVERIES

	5. € 105 203
d14-terphenyl 43	69 69 54 54 54
2-fluorobiphenyl 76	CHEST CARE
d5-nitrobenzene75	. 5 <u>72</u> PS1
RESULT	SCAN CODE

THOSE A MARKET BOY FOR THIS REPORT

No. or not detected at EFA detection limit method 625. (Federal Register, 10726/84) high concentrations. a serio(b) luoranthene and benzo(k) fluoranthene co-elute of the season burger of retention time on chromatogram eforestance and chrysens comelute All results reported in

2015 01/31/86

Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

STORY ROLL BOLL BOLL

NAME Method 625 Base/Neutrals ad Category FRACTION 09A TEST CODE M625 B N/ Date & Time Collected not specified

Minimum detection $\mathrm{SL}_{+} \sim 3$ states and in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1). . The transfers and phenanthrene comelute in high concentrations. I westinated value, less than method detection limit. factor. lights should be multiplied by conc COTTON FACTOR

GUEIVED 01/31/85

REPURT Results by Sample Analytical Serv

LAB # 86-01-242

Sometical Design to blank 625

FRACTION 09C TEST CODE M625 A NAME Method 625 Acid Compounds Date % Time Collected not specified Category

0874 FILE 99801242009

DATE EXTRACTED 01/31/86 DATE INJECTED 02/11/86

INSTRUMENT

FPA

5100

COMPOUNDS DETECTED

L AK

4-nitrophenol

RESULT

9

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믜

2-methyl-4,6-dinitrophenol 2,4-dinitrophenol pentachlorophenol COMPOUND **58A 59A** 60A 64A **65A** NPDES SCAN 7 9 10A **BA** 4 4 2 RESULT 2 밁 2 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 2-chlorophenol A. 4-dichlorophenol al 4-dimethylphenol COMPOUND 214 **:** 提供 316 ÷ THOSE SOME يار اسم ادر

STATE PECOVERIES

Q Z

2-nitrophenol

d 3 - phenot	** ***	
As a tribiomophenol 41	7+73 ++ 1 ++ 1	
3-Pluarophenal 59	74 44	
d5-phonol 74	#### 1/4 1/4	15. (C)
These duncano:	(b)	

specified 30AR - Lan noaber or retention time on chromatogram unless otheru 0.971AND DEFINITIONS FOR THIS REPORT Alj stalts reported in

-4.5 S1 *5.E1050, 01/31/85

HEPURT Results by Sample Analytical Serv

Continued From Above LAB # 86-01-242

CAS RUELD DESCRIPTION DISTRICTS

FRACTION 09C TEST CODE M625 A NAME Method 625 Acid Compounds Date % Time Collected not specified

18 or our detected at EPA detection limit method 625. (Federal Register, 11/26/84) itterted in resgent blanks background subtraction not performed.

indicates dilution of sample if greater than one (1). of a estimated value. Tess than method detection limit. ECTR CADIPA

Minimum detection

factor. limits should be multiplied by conc

LAB # 86-01-242

REFER

Analytical Serv

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9 딀 2 뮏 737 <u>:</u> 븰 2 고 장 113 RESCRI NAME Method 625 Base/Neutrals COMPOUNDS DETLETED VERIFIED BY ځ> :3 nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-butyl phthalate phthalate diethyl phthalate phthalate ٠£ penso(a) purane acenaphthylene benzo(a)anthracene benzo(b)flucranthene anthracene benzo(k) Flugranthing Category di-n-octul dimethyl COMPOUND ٦ ح 5100 specified TEST CODE M625 B INSTRUMENT **63**E 66B 345 768 7.7B 780 ANAL.YST EPA 61B 62B 67B **68**B 69B 70B 7.13 72B 7.3B 258 Date & lime Collected not NPDES SCAN Results by Sample 418 438 4 03 53 130 158 26B 29B 240 258 183 9E ĆΕ \mathbb{C} DATE EXTRACTED 01/31/86 DATE INJECTED 02/11/86 CN 9 2 2 2 Q N 2 2 밁 ت 2 2 RESULT PRACTION 090 9 403 4 chlorophengl phengl ether penzidine 4 - trichlorobeazene hexach lorobenzene hexachloroethane 2 chloronaphthalene 1. 2-dichlorobenzene all filorobeniene acenaphthene 3-41chlorobenzene dishlurobenzidine dinitrotoldene Finoranthene entoroethyl)ether 1. S. daphenglingdrazin. COMPOUND CENTRAL TO THE STATE DISTRICTS 51010 E002471042 ر ا ا 20 :) :. 591 - 7 5 i <u>ت</u> ... i-; ;; eş. 1 3 ن 2 114

Serv Results by Sample Analytical Serv

LAB # 86-01-242 Continued From Above

				QN	naphthalere	© • 1	.*
GFI	byrene	848	45B	QN	tsophorone	83 17 2	٠.
071	indeno(1,2,3-cd)pyrene	838	37B	QN	conschioro gelopentadiene	Edinovania (State	
QN	dibenzo(a, h) anthracene	828	198	QN	hes a hierobutadiene	<u></u>	(-4
GF1	phenanthrene B	818	44B	QZ	bis(2-chlo)oethoxy)methane	40-879 Bis (2-6)	• •
QN	fluorene	808	328	QN	स्टिकाइन्ड chloratsopropyl)ether	संत्रेष्ट काडाटी Chi	: *
QN.	benzo(ghı)perylene	79B	28	QN	4 eromophenyl phenyl ether	413 4 eromop	,
	d Category	Specifie	Date & Time Collected not specified	Time Col	; ; ; ;		3 3 3 -
rals	FRACTION 09C TEST CODE M625 B NAME Method 625 Base/Neutrals	M625 B	TEST CODE	060 NO		satisfie in resgent blank 625	

nitrobenzene

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righ concentiations 21012 0 - 2

LAB # 86-01-242 Continued From Above	Est cuts Mass B NAME Method 625 Base/Neutral
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Category ine collected not specified

Minimum detection complete of greater than one the the first of the ball of the fact Profit with the transfer of

(1) * (1)	icit MoKo o NANE coMo characterination-All rot specified category	CONTRACTOR OF PARTY OF THE PART	
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REPURT Results by Sample Analytical Serv

LAB # 86-01-242

SERVICES CONTROL OF PROPERTY DESCRIPTION SERVICES PROPERTY SERVICES SERVICE

CANFLE ID reagent blank 625

FRACTION 090 TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified

Category

VERIFIED BY LAK DS DETECTED 0 COMPOUNDS DETECTED COMPOUND M N N ANALYST EPA NPDES SCAN DATE EXTRACTED 01/31/86 DATE INJECTED 02/11/86 RESULT COMPOUND SCR01242009 FPA DATA FILE COMO, FACTOR とならの 83037

2 밁 RESULT alpha BHC beta BHC 102P 103P 2 9 2 2 aldrin

2 2 밀 밁 9 2 gamma BHC delta BHC PCB-1242 PCB-1254 PCB-1232 PCB-1248 PCB-1260 PCB-1016 toxaphene PCB-1221 104P 105P 106P 107P 108P 109P 110P 111P 112P 113P **4**P 5P 18P 19P 20P 21P 22P 23P a. H 325 011 2 문 밁 밁 2 물 2 덽 2 2 septachlor apoxide chlordane 4, 4'-DDE 4, 4'-DDD endosulfan beta endosulfan andosulfan sulfate endrin aldebyde heptachlur dieldrin 4, 4'-DDT endrin 895 a. ⊙& SIP 0. [7] a. 구 0. 0.0 2. u. <u>d</u> [∴] 0.5 ÷ 1 ā. Ω. • **1** (±., ů. : i.. 12.

PAGE 87 PECETYED: 01/31/85

Analytical Serv Results by Sample

LAB # 86-01-242 Continued From Above

SAMPLE ID reagent blank 625

FRACTION 09C TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

ROTES AND DEFINITIONS FOR THIS REPORT.

83AR = scan number on chromatogram

All results reported in micrograms/liter unless otherwise specified.

(4) :: not detected at EPA detection limit method 625, (Federal Register, 12/3/79)

ANE SS WURIVED: 01/31/85

REPORT Results by Sample Analytical Serv

LAB # 86-01-242

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DEH \$01082 31 37485

FRACTION 10A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86 Category

Category

[31A FILE \$5001242010

DATE EXTRACTED 01/31/86 DATE INJECTED 02/11/86

5100 INSTRUMENT ANALYST

WJL

VERIFIED BY COMPOUNDS DETECTED

L AX

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phenol

65A

104

밁

2,4-dimethylphenol

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2-nitropherol

RESULT 2,4-dinitrophenol 4-nitrophenol 2-methyl-4,6-dinitrophenol pentachlorophenol COMPOUND **60A** EPA **58A 59A** 64A PESULT NPDES SCAN 7A 9A 9.0 44 2 2 2 2 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 2-chlorophenol 2.4-dichlorophenel COLLPOUND ... --• **T** ₹ : ... 1

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10844	1 OMPOUND	32 0 (32)	

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Analytical Bery

LA2 # 86-01-242 Continued From Above

TH 101058 ST 1756

Results by Sample

FFACILIAN 10A TESI CUBE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86

Minimum detection

Not most detected at EPA detection limit method 625, (Federal Register, 11/26/84)

 $\mathbb{E} \mathsf{L} = \mathsf{refected}$  in reagent blank, background subtraction not performed of the stansted value, less than method detection limit

indicates dilution of sample if greater than one (1) limits should be multiplied by conc COS. FACTOR

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<b>C</b> W	

LAB # 86-01-242	B NAME Method 625 Base/Neutrals Category	WUL VERIFIED BY LAK 5100 COMPOUNDS DETECTED 0	COMPOUND	N-nitrosodimethylamine 130	N-nitrosodiphenylamine NO	N-nitrosodi-n-propylamine 14D	bis(2-ethylhexyl)phthalate ND	butyl benzyl phthalate ND	di-butyl phthalate	di-n-octyl phthalate 14D	diethyl phthalate 110	dimethyl phthalate	benzo(a)anthracene й <u>пр</u>	3r: ————————————————————————————————————	benzo(b)fluoranthene » (4D	benzu(k)fluoranthene *(u}	37) y adeshuy	acemaphthylene (45)	anthracene is 13D	
~~~ ~	CUPE M625 01/30/86	ANALYST INSTRUMENT	AN EPA	618	62B	82B	66B	678	688	69B	70B	718	72B	738	748	758	768	7.7B	788	
REPORT Sample	A TEST CO Collected C	INGI	NPDES SCAN	418	43B	42B	138	158	263	298	248	25B	5.6	6B	7E	816 116	1813	17	36	
ults by	ACTION 10A ste & Time Col	91/31/86 02/11/86	RESULT N	QN	QN	QN	QN	QN	QN	QN	GN	GFI CFI	C N	āN-	GN	일 :	OFF		1 070)
Analytical Ser Res	FRACTIC Date N	DATE EXTRACTED G DATE INJECTED G	COMPOUND	acenaphthene	benzidie	2.4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2∵chloroethyl)ether _	2-chloronaphthalene	1.2-dichlorobenzere	1.3-dichlorobenzene	1.4-dichlorobenzene	3.dlcblorobenzidine	as 4-dinitrotologne	Condinitostatuene	over ze in hyl ho egent of		phonyl phenyl ether	
60 53 55 65		20124EC10	स्या	18	<u>u</u>	85 1, 2,	03 9	63 54	185 b1s(23 (3)	ខា ង ប៉ាក ប៉ាក	P5	02 53 53	m m	14 dis	25 93	100 Hz	3 6 3	403 Archiorophynyl	
	41	DATA FILE :	The PRS SCAN	Vie V	Ç4	2 237	9 80 81	3 m 2 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m	ar: 2	12	24 13 13		22 23 24 24	9 9 1			24 2 3	ia Se)

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PASE 91 RECEIVED	01/31/86	Analytica S6	l Serv Results by Sample	REPORT Sample		LAB # 86-01-242 Continued From Above
5378LE 10 850104 H20	850104	F	ACTION 10A TEST CODE M625 te & Time Collected 01/30/86	TEST CODE N625 B	F M625 B /30/86	NAME Method 625 Base/Neutrals Category
<u> </u>	413	4.tromophenyl phenyl eti	her ND	86	798	benzo(ghi)perylene ND
138	428 t	bis(2-chloroisopropyl)et	her ND	328	808	fluorene ND
101	4 00 00	bis(2-chloroethoxy)meth	ane ND	448	818	phenanthrene B ND
4	52B	hexachlorobutadi	ene ND	193	828	dibenzo(a,h)anthraceneND
ន មា ២	538	hexachlorocyclopentadı	ene ND	37B	838	indeno(1,2,3-cd)pyrene ND
385 2	9	isophor	one ND	45B	848	Dyrene UD
10 m	53B	naphthal	ene ND :			

SCHROGATE PECOVERIES

848

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Q

nitrobenzene

RESULT	d5-nitrobenzene 59	2-fluorobiphenyl 78	d14-terphenyl 40	d to behind the
3000 HP05	578 891	851 BS2	E. 1441	++ 00 20

COTES ANY DEPTRITIONS FOR THIS REPORT

All results reported in <u>eq 1 uniess otherwise specified</u> 19 a not detected at EPA detection limit method 625, (Federal Register, 10/26/84) high concentrations. $\star \approx ext{oesto}(ext{b})$ fluoranthene and benzo(k) fluoranthene comelute. Stak a stan number of retention time on chromatogram enio (a) anthracene and chrysene coreiute

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45E 92 ECEIVED: 01/31/85

Analytical Serv Results by Sample

LAB # 86-01-242 Continued From Above

Residence in the second

SANGLE 10 850104 H20

FRACTION 10A TEST CODE M625 B Date & Time Collected 01/30/86

NAME Method 625 Base/Neutrals Category

Minimum detection $S \cong {\sf anthracene}$ and phenanthrene comelute in high concentrations. S_1, \cdots detected in reagent blank) background subtraction not performed. indicates dilution of sample if greater than one (1). J = estimated value, less than method detection limit. libits should be multiplied by conc. factor.

FAGE 93 RECEIVED: 01/31/85	Analytical Serv Results by Sample	REPURT Sample	LAB # 86-01-242
SAYFLE 1B 850104 H20	FRACTION 10A Date & Time Col	TEST CODE MSNS S NA lected 01/30/86	FRACTION 10A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 01/30/86 Category
CH30 # 5 <u>U01242010</u> SAMPLE 912E 1	DATE ANALYZED <u>02/11/86</u>	UNITS U4/1	VERIFIED BY LAK
• SCAN	СОМРОИИВ	RESULT	CONF REF LEVEL CMPD
	No PCBs Detected		

SUCCESS PROPERTY OF	Province Constraint Medical Constraint	\$5555555555555555555555555555555555555
NOTA STORES		

LAB # 86-01-242	NAME Pesticides & PCBs by GC/MS Category	VERIFIED BY LAK COMPOUNDS DETECTED O	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHCND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260ND	PCB-1016 ND	toxaphene 110	
REPURI ip le	CUDE MS 608 d 01/30/86	ANAL YST	SCAN EPA	102P	103P	104P	105P	1068	1076	108P	109P	1106	1115	112F	<u>a.</u>	
REI Sampl	TEST Lecte		NPDES	Çı	ЗР	4P	er G	18P	19P	20P	21P	22P	23 <u>P</u>	240	a. Cd	
Analytical Serv Results by Sample	FRACTION 10A TEST CODE MS 608 Date & Time Collected 01/30/86	ATE EXTRACTED <u>01/31/86</u> DATE INJECTED <u>02/11/86</u>	RESULT N	aldrin ND	dieldrin ND	chlordane ND	4, 4 '-DDT ND	4, 4'-DDE	4, 4'-DDD ND	endosulfan <u>ND</u>	endosulfan <u>ND</u>	sulfate ND	endrin ND	di di aphuepte	heptachlor III	(IN) epixoda
Tmut.		a	COMPOUND			U				alpha en	beta en	endosulfan		000000	e. E	neptachlor
e (b) - 01/31/85	19 859104 H20	DATA PILE <u>\$2001242610</u> 30 FACTUR	S), AR EPA	라양	alos	단 :** ::	a. G	e-0.5	a. †	a. 6	Q . (4)	87.5	0. 19 25		<u>0</u>	<u>م</u>
				ين سو *رچورت		ე 2 აჯა	1)	ূ 26	ال الرحارة الإحارة	ÜL GA THE THE	ak Cig soo			n_ 3	3. 31 12	



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Analytical Serv Results by Sample

LAB # 86-01-242 Continued From Above

-AYPLE 1D 850104 HED

FRACTION 10A TEST CODE MS 608 Date & Time Collected 01/30/86

NAME Pesticides & PCBs by GC/MS Category

NOTES AND DEFINITIONS FOR THIS REPORT

SCAN = scan number on chromatogram.

Will in not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in micrograms/liter unless otherwise specified

Lib a 85-01-242

ACCIOCAL SECESSOR DESPENDA CONTRACTOR DESPENDE L'AVERANT DES SECONOMINATION DE L'AVERANT DE SECONOMINATION DE L'AVERANT DE

Analytical Serv NonReported Work -44CITES AND TEST CLUES FUS WORK NOT REPORTED ELSEWHERE ***** 95 **CEIVED - 01/31/85

Serv REPORT 02/27/86 17:16:51

LAB # 86-02-001

	02/01/86
PAGE 1	RECEIVED:

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Analytical		
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5 0		Pnch
IGE 1 (CEIVED: 02/01/86	4	ATTEN LATTY French
05	Radian Bl. 4 Austin	Lari
VED:	REPORT <u>Radian</u> TO <u>B1. 4</u> Austin	LTEN
S E	REF	4

		12		
PREPARED Radian Analytical Services	BY BSOI MOPAC BIVO.	Austin, Texas 78766	BUTTEN (412) ARA-4707	
				SAMPLES 6

Can South	CERTIFIED BY	CONTACT CONDVER
, by	78766	7

**Unknown compound eluting here. Second column confirmation perfo	through -06.		Footnotes and Comme		* Indicates a value less than 5
	WORK ID water samples	TRANS Fed Ex	TYPE	P. O. # 212-027-27-40	INVOICE under separate cover

FACILITY Carswell AFB (Gen. Dunamics)

Plant 4

COMPANY

CLIENT PLANT4

Second column confirmation performed for EPA 601 on -01
surguan -va
Footnotes and Comments
* Indicates a value less than 5 times the detection limit
Potential error for such low values ranges between
30 and 100%.

specific metrix was not within acceptable limits indicating E Indicates that spike recovery for this analysis on the an interferent present.

SAMPLE IDENTIFICATION

Analytical Serv TEST CODES and NAMES used on this report									
9 t									
used									
NAMES	1			1	.	1	1		
and			3020	7			bare.		
CODES	evel	S	DG3020 Digestion by Method 3020	/6C	20/2	Hudrocarbons in soil	Mercuru, Cold Vapor Oil and Grease, Infrared	1	10/01
IEST PES	CPES	ICPES	70	109	605	i suo	0100	leve	O
erv r, IC	isc.	UM.	tion	etho	letho	Cerb	3 2	l Ow	
cal Serv TES	Arsenic, low level Barium, ICPES	Cadmium, ICPES Chromium, ICPES	Diges	EPA P	EPA L	Hudro	Merct Oil	Lead,	Selen
Analyti AG E		1 1	3020	GC 601 EPA Method 601/GC	GC 602 EPA Method 602/6C	H IR	ONG IR	PB GA Lead, low level	SF GA Selenine. Jou level

	10-14 B				
PAGE 2 RECEIVED: 02/01/86	Analytica	tical Serv RESULTS BY	REPORT Test	LAB # 86-02-001	-001
TEST CODE	Sample 01	Sample <u>02</u> (entered units)	Sample 03	Sample 04	Sample 05
AG_E	0.002*	0.011	0.008*	0.012	0.019
AS C	<. 005	<. 005	4.005	<. 005	<. 005
	0. 11	0.095	0.020	0.023	0.12
E	<. 002	0.003*	0.003*	<. 002	0.003*
ш. Ш.	0.14	0.007*	0.013*	0.017*	0.13
2 D63020	02/05/86	02/05/86	02/02/86	02/02/86	02/02/86
130	02/10/86	02/10/86	02/10/86	02/10/86	02/10/86
		<1.0	(1.0		
HG CA	<. 0002	<. 0002	<. 0002	₹. 0002	₹.0002
ONG_IR		<1.0	<1.0		
PB GA	<. 002	<. 002 e	0.003*	<. 00 2	0.004
SE_GA	<. 003e	<. 003	€003	€ 003	€ 003

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PAGE 3 Received: 02/01/86	Analytical Serv REPORT RESULTS BY TEST	LAB # 86-02-001
TEST CODE	Sample 06 (entered units)	
AG_E	0.016	
AS CA	C 002	
B S S S S S S S S S S S S S S S S S S S	0.053	
CD_E	0.003*	
CR E	0.024*	
D63020	02/05/86	
DG6010	02/10/86	
HG_CA	< 0005	
F. 6.	<. 002	
SEGA	C. 003	
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RECEIVED: 02/01/86		1 4 4 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	/		
PACE ID 860109 FRACTION 01A TEST CODE 65 601 NAME EPA Method 601/6C	PAGE RECE!	4 IVED: 02/01/86		REPORT Sample	LAB # 86-02-001
DATA FILE Q DATE INJECTED 92/03/96 ANALYST RP INSTRUMENT RESULT SCAN COHPOUNDS DETECTED SCAN COHPOUND RESULT SCAN COHPOUND RESULT RESULT A Trichloroethene A Trichloroethene A Trichloroethene A Trichloroethene	SAMP	LE ID 860109	FRACTION OIA Date & Time Col	TEST CODE GC 601 lected 01/31/86	NAME EPA Method 601/GC Category
SCAN COMPOUND REBULT SCAN COMPOUND REBULT	CONC.	FACTOR	INJECTED	ANALYST INSTRUMENT	VERIFIED BY COMPOUNDS DETECTED
Chloromethane ND Dibromochioromethane & Bromomethane & Bromomethane & I.1.2—Trichloroethane & I.1.2—Trichloroethane & I.1.2—Trichloroethane & Chloroethane & I.1—Dichloroethane & I.1.2—Trichloroethane & I.1.2—Ichloroethane & Chloroethane & Chloroethane & Chloroethane & I.2—Dichloroethane & I.2—D		SCAN		SCAN	
Vinyl Chloride ND 1.1.2-Trichloroethane *				C	ļ
Chlorosthane ND Cis-1,3-Dichlorosthane * Chlorosthane ND Cis-1,3-Dichloropropene * Trichlorofluorosthane ND Cis-1,3-Dichlorosthal Ether Trichlorofluorosthane ND Cis-1,2-Tetrachlorosthane * 1,1-Dichlorosthane ND Cis-2-Tetrachlorosthane * Chloroform ND Cis-2-Dichlorosthane ND Cis-1,2-Dichlorosthylene * 1,2-Dichlorosthane ND Cis-2-Dichlorosthane ND Cis-2-Dichlorosenzene 2		1			*
Chloroethane ND			Chloride		*
Trichlorofluoromethane ND 1.1,2,2—Tetrachloroethquivinqui Ether Bromoform 1,1—Dichloroethane MD 1.1,2,2—Tetrachloroethane MD 1.1,2,2—Tetrachloroethane MD 1.1—Dichloroethane MD 1.3—Dichloroethane MD 1.3—Dichloroethane 1.2—Dichloroethane 235 1.4—Dichlorobenzene 1.2—Dichloromethane ND 1.2—Dichlorobenzene 1.2—Dichloropenane ND 1.3—Dichloropenane ND 1.3—Dichlorop		-	•	Ci	*
Trichlorofluoromethane ND 1.1.2,2—Tetrachloroethane # 1.1-Dichloroethane ND 1.1-Dichloroethane ND 1.1-Dichloroethane ND 1.1-Dichloroethane ND 1.2-Dichloroethane 6.39 Chlorobenzene 1.2-Dichloroethane ND 1.2-Dichloroethane ND 1.2-Dichloroethane ND 1.2-Dichloroethane ND 1.2-Dichloroethane ND 1.2-Dichloropenzene 1.2-Dichloropropane ND 1.2-Dichlor	9	-	Chloride		
1.1-Dichloroethene ND 1.1.2.2-Tetrachloroethane # Tetrachloroethane # Tetrachloroethane # Tetrachloroethane # Tetrachloroethylene # Chloroform ND 1.3-Dichlorobenzene 1.2-Dichloroethane ND 1.2-Dichlorobenzene 1.1.1.1-Trichloroethane ND 1.2-Dichlorobenzene 1.2-Dichloropenzene 1.2-Dichloropenzene ND 1	Tri				
ND ND 1, 3-Dichlorobenzene 235	32			1.1.	*
ND I. 2-Dichlorobenzene 1. 3-Dichlorobenzene 1. 2-Dichlorobenzene ND II. 4-Dichlorobenzene ND II. 4-Dichlorobenzene ND II. 4-Dichlorobenzene ND III. 4-Dichlorobenzene ND III. 4-Dichlorobenzene					*
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PAGE 5 RECEIVED: 02/01/86

REPORT Results by Sample Analytical Serv

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LAB # 86-02-001 Continued From Above

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SAMPLE ID 860109

FRACTION OIA TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 01/31/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in $\frac{10.04}{10.000}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

	J 9	VERIFIED BY MCL DS DETECTED 0	RESULT	Q	Q	QN	
LAB # 86-02-001	TEST CODE GC 602 NAME EPA Method 602/GC ected 01/31/86 Category	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1, 3-Dichlorobenzene	1,2-Dichlorobenzene	
REPORT Sample	FRACTION OIC TEST CODE GC 602 Date & Time Collected 01/31/86	ANALYST	SCAN	ļ			
Analytical Serv REP Results by Sample	FRACTION OIC Date & Time Co	DATE INJECTED <u>02/03/86</u>	RESULT	QN .	Q	ON P	QN .
Analy		DATE I	COMPONIE	Benzene	Toluene	Ethyl Benzene	Chlorobenzene
PAGE 6 RECEIVED: 02/01/86	SAMPLE ID 860109	DATA FILE CONC. FACTOR	SCAN	2	134		

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram

All results reported in $\frac{197L}{1}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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COMPOUNDS DETECTED VERIFIED BY Trichloroethene Bromoform 2-Chloroethylvinyl Ether Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene 1, 4-Dichlorobenzene NAME EPA Method 601/GC Dibromoch loromethane cis-1, 3-Dichloropropene 1, 1, 2, 2-Tetrachloroethane Tetrachloroethylene 1, 1, 2-Trichloroethane LAB # 86-02-001 Category COMPOUND 씸 TEST CODE 6C 601 Date & Time Collected 01/31/86 ANALYST INSTRUMENT REPORT SCAN Results by Sample DATE INJECTED 02/03/86 FRACTION 02A 9 윋 月 月 月 물 9 月 月 9 皇 2 물 RESULT 윋 밁 trans-1, 2-Dichloroethene 10.9** Analytical Serv Chloromethane Bromome thane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1. 1-Dichloroethene 1, 1-Dichloroethane Chloroform 1, 2-Dichloroethane Bromodich Loromethane trans-1, 3-Dichloropropene 1, 1, 1-Trichloroethane Carbon Tetrachloride 1,2-Dichloropropane COMPOUND RECEIVED: 02/01/86 SAMPLE 10 860110 DATA FILE SCAN CONC

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PAGE 8 RECEIVED: 02/01/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-001 Continued From Above

SAMPLE 1D 860110

FRACTION <u>02A</u> TEST CODE <u>6C 601</u> Date & Time Collected 01/31/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1, 1, 2, 2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in

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All results reported in $\frac{\log L}{\log L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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RESULT COMPOUNDS DETECTED VERIFIED BY Trichloroethene Bromoform 2-Chloroethylvinyl Ether Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene 1, 4-Dichlorobenzene NAME EPA Method 601/60 cis-1, 3-Dichloropropene Tetrach loroethy lene Dibromoch loromethans 1, 1, 2-Trichloroethane 1, 1, 2, 2-Tetrachloroethane LAB # 86-02-001 Category COMPOUND 뮙 TEST CODE GC 601 Date & Time Collected 01/31/86 ANAL YST INSTRUMENT SCAN REPORT Results by Sample DATE INJECTED 02/03/86 FRACTION 03A 9 月 旲 月 윋 뮏 月 밁 밁 뮏 月 呈 밁 뮏 RESULT 11. 3** Analytical Serv trans-1, 2-Dichloroethene Chloromethane Chloroform trans-1, 3-Dichloropropene Bromome thane Vinyl Chloride Methylene Chloride Trichlorofluoromethane 1, 1-Dichloroethane 1, 2-Dichloroethane 1, 1, 1-Trichloroethane Carbon Tetrachloride 1,2-Dichloropropane Ch loroethane 1,1-Dichloroethene Bromodichloromethane COMPOUND 0 RECEIVED: 02/01/86 SAMPLE ID 860111 DATA FILE CONC. FACTOR SCAN 138 2

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-001 Continued From Above

SAMPLE ID 860111

FRACTION 03A TEST CODE GC 601
Date & Time Collected 01/31/86

Category

NAME EPA Method 601/60

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in_

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COMPOUNDS DETECTED __O 9 2 밁 RESULT VERIFIED BY NAME EPA Method 602/GC 1,4-Dichlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene LAB # 86-02-001 Category COMPOUND FRACTION OSC TEST CODE GC 602 Date & Time Collected 01/31/86 **ANALYST** INSTRUMENT SCAN REPORT Results by Sample DATE INJECTED 02/04/86 Q **RESUL1** Analytical Serv Ethyl Benzene Chlorobenzene COMPOUND Benzene Toluene RECEIVED: 02/01/86 SAMPLE 1D 860111 DATA FILE CONC. FACTOR SCAN PAGE 12 140

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

ug/L unless otherwise specified. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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LAB # 86-02-001	501 NAME EPA Method 601/GC 5 Category	RP VERIFIED BY MCL COMPOUNDS DETECTED 2	COMPOUND	Trichloroethene 2015	Dibromochloromethane * ND	1, 1, 2, Trichloroethane * ND	cis-1, 3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene ND	1, 3-Dichlorobenzene ND	1, 2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND				
REPORT Sample	ACTION 04A TEST CODE GC 601 te & Time Collected 01/31/86	ANALYST INSTRUMENT	SCAN	a					•		1								
Analytical Serv Results by Sample	FRACTION 04A Date & Time Col	G DATE INJECTED 02/04/86	COMPOUND	Chloromethane ND	Bromomethane ND	Vinyl Chloride ND	Chloroethane ND	Methylene Chloride ND	Trichlorofluoromethane ND	1,1-Dichloroethene ND	1, 1-Dichloroethane ND	trans-1,2-Dichloroethene 298	Chloroform ND	1.2-Dichloroethane ND	1, 1, 1-Trichloroethane ND	Carbon Tetrachloride ND	Bromodichloromethane ND	1,2-Dichloropropane ND	trans-1,3-Dichloropropene ND :
PAGE 13 RECEIVED: 02/01/86	SAMPLE ID 860112	DATA FILE	SCAN	1		1		2	14	1		-							t 1

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PAGE 14 RECEIVED: 02/01/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-001 Continued From Above

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SAMPLE 1D 860112

FRACTION 04A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 01/31/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in $\frac{10/L}{10}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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		D BY MCL	RESULT	Q.	Q Z	QN	
LAB # 86-02-001	NAME EPA Method 602/GC Category	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene	
REPORT Sample	FRACTION 04C TEST CODE GC 602 Date & Time Collected 01/31/86	ANALYST	SCAN				
Serv Results by Sample	TION O4C	:D <u>02/04/86</u>	RESULT	CZ Z	Q	Q	Q
Analytical	FRAC	<u>D</u> DATE INJECTED <u>02/04/86</u>	COMPOUND	Ben z ene	Toluene	Ethyl Benzene	Chlorobenzene
PAGE 15 RECEIVED: 02/01/86	SAMPLE ID 860112	DATA FILE CONC. FACTOR	SCAN		2 14		

SCAN = scan number or retention time on chromatogram NOTES AND DEFINITIONS FOR THIS REPORT

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) ug/L unless otherwise specified All results reported in

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LAB # 86-02-001

REPORT Results by Sample Analytical Serv

TEST CODE 6C 601 Date & Time Collected 01/31/86 FRACTION 05A SAPPLE 10 860113

NAME EPA Method 601/60 Category

띰 ANAL YST INSTRUMENT DATE INJECTED 02/04/84 DATA FILE FAC TOR

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Ch loromethane

VERIFIED BY COMPOUNDS DETECTED

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Trichloroethene COMPOUND

RESULT

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Dibromoch loromethane

1, 1, 2-Trichloroethane

옃 c1s-1, 3-Dichloropropene

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Chloroethane

Methylene Chloride

Trichlorofluoromethane

Vinyl Chloride

Brosome thane

9 2-Chloroethylvinyl Ether

S Brosofors

1, 1, 2, 2-Tetrachloroethane

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1. 1-Dichloroethene

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1. 1-Dichloroethane

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trans-1, 2-Dichloroethene

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9 Tetrachloroethylene 열 Chlorobenzene

2 1. 3-Dichlorobenzene

2 1.2-Dichlorobenzene

Ž 1, 4-Dichlorobenzene

> 9 1. 1. 1-Trichloroethane Carbon Tetrachloride

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1.2-Dichloroethene

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Chloroform

2 Bromodichloromethane

9 1. 2-Dichloropropane 물 trans-1, 3-Dichloropropene

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PAGE 17 RECEIVED: 02/01/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-001 Continued From Above

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SAMPLE 10 860113

FRACTION OSA TEST CODE GC 601 Date & Time Collected 01/31/86

Category

NAME EPA Method 601/GC

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79) M1.1.2.2—tetrachloroethane and tetrachloroethylene co-elute All results reported in <u>ug/L</u> unless otherwise specified SCAN = scan number or retention time on chromatogram

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LAB # 86-02-001

REPORT

Analytical Serv

RECEIVED: 02/01/86

Results by Sample

RESULT COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 602/GC 1, 4-Dichlorobenzene 1. 3-Dichlorobenzene 1, 2-Dichlorobenzene Category COMPOUND 월기 FRACTION 05C TEST CODE GC 602
Date & Time Collected 01/31/86 ANAL YST INSTRUMENT SCAN DATE INJECTED 02/04/84 2 RESULT Chlorobenzene Ethyl Benzene COMPOUND Benzene Toluene **SAMPLE ID 860113** DATA FILE CONC. FACTOR SCAN 2 146

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ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) <u>ug/L</u> unless otherwise specified SCAN = scan number or retention time on chromatogram. AND DEFINITIONS FOR THIS REPORT. All results reported in NOTES

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PAGE 19 RECEIVE	PAGE 19 RECEIVED: 02/01/86	Analytic	tical Serv REP Results by Sample	REPORT y Sample	LAB # 86-02-001
SAMPL	SAMPLE ID 860114		FRACTION OGA Date & Time C	RACTION OGA TEST CODE GC 601	NAME EPA Method 601/GC Category
DA CONC.	DATA FILE	DATE II	DATE INJECTED <u>02/04/86</u>	ANALYST INSTRUMENT	RP VERIFIED BY MCL COMPOUNDS DETECTED 2
	SCAN	COMPOUND	RESULT	SCAN	COMPOUND
		Chloro	Chloromethane ND	Cal .	Trichloroethene 402
	1	Broso	Bromomethane ND		Dibromochloromethane * ND
		Vinyl Chloride	hloride ND		1, 1, 2-Trichloroethane * ND
2		Chlor	Chloroethane ND		cis-1, 3-Dichloropropene * ND
2 1	1	Methylene Chloride	Noride ND		2-Chloroethylvinyl Ether ND
47	-	Trichlorofluoromethane	nethane ND	,	Bromoform ND
	1	1,1-Dichloroethene	Dethene ND	1:1:	1, 1, 2, 2-Tetrachloroethane # ND
	Ì	1,1-Dichloroethane	Dethane ND		Tetrachloroethylene # ND
	1	trans-1,2-Dichloroethene	Dethene 160**		Chlorobenzene
		Ch 1	Chloroform ND		1, 3-Dichlorobenzene ND
	l	1,2-Dichloroethane	Dethane ND		1, 2-Dichlorobenzene ND
		1,1,1-Trichloroethane	oethane ND		1, 4-Dichlorobenzene ND
	ļ	Carbon Tetrachloride	Nloride ND		
		Bromodich loromethane	ne thane		
		1,2-Dichloropro	propane ND		
	##	trans-1,3-Dichloropro	propene ND		

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Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-001 Continued From Above

SAPPLE 1D 860114

FRACTION OGA TEST CODE GC 601
Date & Time Collected 01/31/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79) M1. 1. 2. 2-tetrachloroethane and tetrachloroethylene co-elute ug/L unless otherwise specified SCAN = scan number or retention time on chromatogram All results reported in

	ال	ECTED O	RESULT	Q.	Q.	Q	
	TEST CODE GC 602 NAME EPA Method 602/GC bllected 01/31/86 Category	VERIFIED BY	COMP DUND	1.4-Dichlorobenzene	1, 3-Dichlorobenzene	1, 2-Dichlorobenzene	
Samp Le	TEST CODE QC 602	ANAL YST INGTRUMENT	& 38				
Results by Sample	FRACTION OGC TEST CODE GC 60 Date & Time Collected 01/31/86	DATE INJECTED 02/04/86	RESULT	2	2	9	Q
		D DATE IN.	GNALO GRADO D	• • • •	Toluene	Ethyl Benzene	Chlorobenzene
RECEIVED 02/01/86	SAPLE 10 860114	DATA FILE	SC AN	}	2 149		

LAB # 86-02-001

REPORT

Analytical Serv

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All results reported in <u>ug/L</u> unless otherwise specified NO = not detected at EPA detection limit method 602. (Federal Register, 12/3/79) SCAN x scan number or retention time on chromatogram NOTES AND DEFINITIONS FOR THIS REPORT

Recent Proposition Convention Services

Analytical Serv

Serv REPORT NonReported Work PAGE 22 RECEIVED 02/01/86

FRACTION AND TEST CODES FOR MORK NOT REPORTED ELSEMMERE

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LAB # 86-02-004

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Physical Services Services of Blod of P. O. BOY 9748

Austin, Texas 78766

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CONTACT ERENCH

+11(115 (512) 454-4797 113111

Footnotes and Comments

* Indicates a value less than 5 times the detection Potential error for such low values ranges between 50 and 100%

Specific matrix was not within acceptable limits indicating @ Indicates that spike recovery for this analysis on the

an interferent present

Analytical Serv TEST CODES and NAMES used on this report

Ex 525 Extraction only - 625 BN/A M525 A Method 625 Acid Conpounds of B Method 525 Base/Neutrals will simply the Station-ABN

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LAB # 86-02-004	ample 02 Sample 03 Sample 04 Sample 05 erred units) (entered units)	02/03/86 02/03/86		
REPORT TEST	Sample 03 (entered units)	02/03/86		
ncal Serv RESULIS BY TEST	Sample 02 (entered units)	03/03/86		
Analutical	Sangle 01 S	027.0375a	Sample 06 (entered units)	02/03/86
8ASE 3 9ETETVEB 02/01/85	default conte	EX 625 date complete	TEST CODE :	date complete

547EL 10 S20110 H20 58/10/70 G4/14/4

HEPUH Results by Sample Analytical Serv

LAB # 86-02-004

NAME Method 625 Acid Compounds

Category

FRACILUN 01A TEST CUDE M625 A Date % fime Collected 01/30/86

1 ATA + 1 LE 50002004001 TO TOTAL

DATE EXTRACTED 02/03/86
DATE INJECTED 02/11/80

INSTRUMENT **ANALYST**

M 5100

VERIFIED BY LAK COMPOUNDS DETECTED

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RESULT

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phenol

4-nitrophenol 2,4-dinitrophenol 2-methyl-4,6-dinitrophenol pentachlorophenol COMPOUND **58A 60A** EPA 59A 64A **65A** RESULT NPDES SCAN 74 4 4 5 94 104 S 0 2 S 2 일 2, 4, 6-trichlorophenol 4-chlora-3-methylphenal 2-chlorophenol 2,4-dichlorophenol 2.4-dimethylphenol 2-nitrophenol COMPOUND 4 423 :1 4 31**A** 1 記載18 所記18 M 1 :: ٠; 4 2

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Analytical Service Analytical Service Analytical Service Result

igtical Serv Results by Sample

LAB # 86-02-004 Continued From Above NAME Method 625 Acid Compounds Category FRACTION OIA TEST CODE M625 A Date & Time Collected 01/30/86

t detected at tPA detection limit method 625, (Federal Register, 11/26/84)

ictected in respent blank, background subtraction not performed. indicates dilution of sample if greater than one (1). timated value, less than method detection limit.

Minimum detection

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•	0		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	.	۲	LAB # 86-02-004	
	Fig. 196 U.A. The Collected 01/30/86	(C) 467	Ented Co	lest cult M525 b lected 01/30/86		NAME Method 625 Base/Neutrals Category	trals
-		\$ \$ 5 = 5 =		AUAL YST INCTHUMEUT	N.W.	VERIFIED BY LAW COMPOUNDS DETECTED	BY LAW
	•	F	Table Company	FPA	Ü	ор м ентар	RESUL 1
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		•	্ৰ ক	4.38	N nitto	N mitrosodiro propylamine	
		7.	2] v • · ·	5.e.B 1	513 24	bis struglherglophthalate	171
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THE TANK THE TANK THE TOTAL TO	THA LINE IN ESTUDIE MOZD BY MANE Method bab Base/Neutrals Late 1 insertable ol/30/86	विधान निपन्ति विधानिक स्वर्धिक स्वरतिक स्वर्धिक स्वरतिक स्वर्धिक स्वरतिक स्वर	होते हैं जान गर्मा है। अपने स्थापन क्षेत्र स्थापन क्षेत्र स्थापन क्षेत्र स्थापन क्षेत्र स्थापन क्षेत्र स्थापन क्षेत्र स्थापन क्षेत्र	mily is mathema NO 448 818 phenanthrene B NO	196 ± 196 dibenzo(a, b) anthracene 196 ± 196	in Tipentadiene ND 37B 83B indenu $(1,2,3$ -cd)pyrene ND	supporting ND : 458 848 ND :
T.	(X)				herafol cobolediene		
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JUPRESALE RECOVERIES

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RESULF	d5-nitrobenzene 64	2-fluarobiphenyl 84	J14·terphenyl 46	d10-biphenyl
3000 NA72	<u> </u>	<u>651</u> 832	1418 853	ተ መ ጨ

ROTES ANY DEFINITIONS FOR THIS REPORT

high concentrations \star = benzo(b)fluorarthene and benzo(k)fluoranthene co-elute. SCAN a scan number or reteption time on chromatogram. enzo(a)anthracere and chrysene comelute

.tt.al warv Results by Sample

LAB # 86-02-004 Continued From Above

SOURCE STANDARD STANDARD STANDARD SOURCE SANDARD TO SEE STANDARD S

NAME Method 625 Base/Neutrals FRACTION OIA TEST CODE M625 B

Category

Late & Time Collected 01/30/86

and then anthrene co-elute in high concentrations.

resyent blanks background subtraction not performed salve less than method detection limit.

indicates dilution of sample if greater than one (1).

Minimum detection

reals be muitiplied by conc. factor.

FO0-70-98 # 887	RACTION OIA TEST CODE MSNS S NAME GCMS Characterization-Ab.	VERTET BY CAP	COMP. P.F.	
REPURI Sample	TEST CODE MSNS S NAI lected 01/30/86	1767 STINO	RESULT	
Analytical Serv Results by Sample	FRACTION OIA Date % Time Col	DATE ANALYZED 02/11/86	COMPOUND	No PCBs Detected
FAGE 8 RECEIVED: 02/01/86	SAMPLE 1D 850110 H20	CHAD # 5002004C01	SCAN	

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STATEMENT OF THE STATEM

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LAB # 86-024 NAME Pesticides & PUBs by GU ME Category	VERTHIED BY CAS COMPOUNDS DETECTED	COMPOUND RESULT	alpha BHC NE	beta BHC 11	SA DHG BWWeb	delta BHC	PCB-1242 11	PCB-1254	PCB-1221 UE	PCB-1232 ND	PCB-1248 10	PCB-1260	PCB-1016 ME	tuxaphena	
cal Serv Results by Sample Results by Sample FRACTION OIA TEST CUDE MS 608 Date & Time Collected 01/30/86	ANALYST	NPDES SCAN EPA	2P 102P	3P 103P	4p 104P	5P 105P	18P 106P	19P 107P	20P 108P	21P 109P	22P 110P	23P 111P	24P 112P	25P 113P	
Analytical Serv Results by S FRACTION OIA Date & Time Coll	DATE EXTRACTED <u>02/03/86</u> DATE INJECTED <u>02/11/86</u>	COMPOUND RESULT NP	aldrin ND	dieldrin	chlordane ND	4, 4'-DDT ND	4, 4 '-DDE ND	4, 4'-DDD ND	alpha endosulfan <u>ND</u>	beta endosulfan <u>ND</u>	endosulfan sulfate ND	endrin ND	on aldehyde nicens	hegtachlor ND	heptachlor epoxide ND 1
PAGE 9 RECEIVED: 02/01/86 SAMPLE ID 860110 H20	DATA FILE <u>SCUOZGO4C01</u>	NPBES SCAN EPA C	1P 89P	105 905	916 92 1	426 dz 5	ස්වීර ස්වී	3.6 9.4P	11F 95p	11.P	dito dito	0 00 00 00 00 00 00 00 00 00 00 00 00 0	der e	6501 941	17P 101P h

PAGE 10 RECEIVED: 02/01/85

Results by Sample Analytical Serv

REPORT

LAB # 86-02-004 Continued From Above

SAMPLE ID 850110 H20

FRACTION O1A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 01/30/86 Category

ROTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number on chromatogram.

য়ে ። not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in micrograms/liter unless otherwise specified.

KADIAN

LAB # 86-02-004	TEST CODE M625 A NAME Method 625 Acid Compounds llected 01/30/86 Category
Serv	AACTION O2A TEST CODE M625 A
Results by Sample	ste % Time Collected 01/30/86
Anslutical Serv	FRACTION
Resu	Date %
FASE 11 RECEIVED 02/01/86	SATPLE ID 850111 HED

VERIFIED BY LAK COMPOUNDS DETECTED 1	COMPOUND	4-nitrophenol ND	2, 4-dinitrophenol ND	2-methyl-4,6-dinitrophenol ND	pentachlorophenol ND	phenol 3	
MJL 5100	Ü			2-methyl-,	_		
ANAL YST TRUMENT	EPA	58A	59A	60A	64A	65A	
ANAL.YST INSTRUMENT	SCAN					454	
H	NPDES	7A	SA	4	9 A	104	
<u>02/03/86</u> 02/11/86	RESULT	Q	QN	QN	Q	9	QN
DATE EXTRACTED DATE INJECTED	C OIMP OLUND	2, 4, 6 -trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	s 4-dishlorophenol	4-dimethylphenol	⊡-nitiophenal
UATA FILE <u>\$0002004002</u> JC FACTOR	·,	2, 4,	4-ch10		••	',	
[] 박용	EPA	214 A	त च	स्कर्	4	₹ *† *}	• £
DATA FILE COMO FACTOR	NACE EBORD	4	¥,	ቷ 2 1	음 1 61	i.	ef 4:

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RESULT	45.phenol	The rophenol	-mopherm (-mapherman)	्र संस्था
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specified 837Es Ast Gerikiiibus FOR injs हिल्लास अस्ति न stan number on retention time on chromatogram Q, unless othery . . . saults reported in

LAB # 86-02-004 Continued From Above	8AJION 02A TEST CODE M625 A NAME Method 625 Acid Compounds ate y Time Collected 01/30/86	gister II-26 84: rmad rmad rmad
Analytical Dervines by Sample		$\Omega \geq \pi \cos t$ detected at EPA detection limit method 625 (Federal Pegister 11-26 Bi). SL π detected in reagent thank, background subtraction not performed a stimated value, less than method detection limit (CM $- E = 0.000$) and cates dijution of sample if greater than one of Minimum detilimits should be multiplied by condition
FASE 12 FELEVED 02/01/95	SANPLE ID BEGIII HED	NO a not detected at FPA detection SL a vetected in reagent tlank, bo Ja estimated value, less than me (CM FACTOR indicates dilution limits should be multiplied by con

1	CODE Mode B	ANALYST LES LES BROMEN LES TESTES BROMEN LES TESTES LES LES LES LES LES LES LES LES LES L	R EPA COMPOUNT	615 tonitrosodimethylma.rx	62B Residing the Country of the Coun	63B Norithesodi mipropianio	66B bis C ethylhery, prtralati	albana teras teras trans	68B district that att	69b 31.000 31.000 6 4.	70P	# 17							•
TO A TO A TO A TO A TO A TO A TO A TO A	Collected C	() 2 H	NPDES SCAN	416	438	428	138	158	268	862	: 24B	변 (연 	a C		₹.	5.4 T	1	a man	<u>대</u>
Serv Results b	UN 024	92: 93/86 02: 11/86	PESULT	7.0	N	2	N	N	N	2	ON N	2		12		2	<u>4</u>		7
20 Ca Ca Ca Ca Ca Ca Ca C	FRACTI Date :	DATE EXTRACTED PATE INJECTED	grandaudo	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	(2 chloroethyl)ether	\mathcal{P}_{+} chlorenaphthalene	1,2-d1-blorobenzene	1.3-d1(hlorobenzene	1.4-dichlorobenzene	Postenson and the second trans-	adang Pipolitulp. E. C	Secondaratruteluene	ecase as bulled adds of	floor and hence	prient () ather
02/01/85	850111 HZD	11.E <u>\$01.02004C02</u> 118	£ EPA	13	១ន	85 1, 2	Se	128	182 bis(808	9) (1)	268	03 70	5.00 Block	Ou al M	1.3 3.	<u>u</u>	ණ ආ න	403 4-ct 10: 0phenul
PASE 13 RECEIVED	SayPLE 1D	rata elle corc factor	NPDES SCALL	13	83 17	(a) (b) (c)	338	368	118	ឈ្ន ប៉	24 () ()	24 Tq	ស្ន () ()	23 04 14	• • • • • • • • • • • • • • • • • • • •	69 20 73	C2 1.	g∆n gend g 75	123 1

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<u>.</u>	FRACTION 02A TEST COUR M625 B Date & Time Collected 01/30/86	79B	808	818	828	838	818		
REPORT Sample	lESI (88	326	44B	198	37B	458		
Serv Results by Sample	N 02A Time Co	NC	2	2	2	2	S	2	Q
Analytical Serv Resu	FRACTIO Date &	4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether	bis(2-chloroethory)methane	herachlorobutadiene _	hexachlorocyclopentadiene _	15ophorone	naphthalene	nitrobenzene _
58/10/30	SANPLE ID 850111 H20	412 4-6	42B bis(439 bis	3.E	SSB he	त्र स	558	558
PAGE 14 RECEIVED	SAMPLE ID	ea + -	es es	108	348	9 9 9	88E 2	a 66	្ទុ 64

SUFROGATE RECOVERIES

RESULT	d5-nitrobenzene 123	2 fluorobiphenyl 80	did terphenyl 44	die biphenyl
CODE	181	00 00 00 00	63 - 63 - 13 -	१५ १५ १५
SCAN CODE	27.7	ंडिह	1 + + 1	

MOTES AND DEPIRITIONS FOR THIS DEPORT

All results reported in ____sq.j unless otherwise specifie) No a not detected at EPA detection limit method 625, (Federal Popisto) high concentrations 4 \pm benio(b)fluoranthene and benio(k)fluoranthene co-elute A f . Anio(a)anthratene and chrysene corelute — high conce SOME a scan neater or retention time on chromatogram

PASE 15 RECEIVED: 02/01/85

REPURI Results by Sample Analytical Serv

LAB # 86-02-004

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Continued From Above

SAMPLE ID 850111 H20

FRACTION OZA TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected 01/30/86

Minimum detection $\mathrm{EL} \approx \mathrm{detected}$ in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1) $3~\pm$ anthracene and phenanthrene co-elute in high concentrations J = estimated value, less than method detection limit factor limits should be multiplied by conc

PASE 16 RECEIVED: 02/01/85

Analytical Serv REPURI Results by Sample

LAB # 86-02-004

547PLE 10 850111 HED

FRACTION <u>O2A</u> TEST CUDE MSNS S NAME GCMS Characterization—ABN Date & Time Collected <u>01/30/86</u>

VERIFIED BY LAK

2004002035

DATE ANALYZED 02/11/86

UNITS UG/1

REF CMPD CONF LEVEL

RESULT

CHAC # CAMPLE SIZE

No PCBs Detected COMPOUND

SCAN

LAB # 85-02-004	NAME Pesticides & PCBs by GC/MS Category	COMPOUNDS DETECTED BY LAKE COMPOUNDS DETECTED	COMPDUND	
Araletical Serv REMUR! Results by Sample	FRACTION OLA TEST CULL MS SUB NAME PESTICIDES & PCBS by GC/NS Date & Time Collected 01/30/56	DATE EXTRACTED <u>02/03/86</u> PATE TRIECTED <u>02/11/86</u>	CORPORATE RESULT NPDES SCAN EPA	
		FALS FILE SUDGESTIONS	13 15 15 15 15 15 15 15 15 15 15 15 15 15	在中心 在一

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RESULT	UND	QN	Z	37	<u>Utl</u>		2	2		.ī	¥	.*	
	alpha BHC	beta BHC	gamma BHC	delta BHC	PUB-1240	P. B. 1.54	1271 a -4	 	•				
COMPOUNT													
SCAN EPA	102P	1038	104P	105P	1068	1078	HÃO L				:		
NPDES SC	di N	ф т	4	٠ ع	186	1.06		ча. 11-4	· ·		÷		
RESULT	QN	Q N	ND	Ŝ	QN		377	Ĭi.	r.t	•		· •	
	aldrın	dieldrin	chlordane	4 4 · DD1	a 47-DDE	deld to the	The solf and		1			•	
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3 4 3	(A)	0.00	GL T	(g	6, 0	(L 11 ()	3	G.			, T	12 10 10 10 10 10 10 10 10 10 10 10 10 10	9111
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PAGE 18 REVEIVED: V2/01/85 REVEIVED: V2/01/85 SAMPLE ID 850111 HBU. PAGE & 'Ima Collected 11/30/55 Category

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Signary scan number on ittunatogram. All results reported in Girrugrams/liter orless otherwise specifical Note not detected at EPA detection limit method 625 of estrac region

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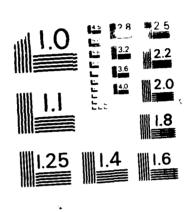
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esults reported a 407ES 849 Per 131 - 100 - FOR SCAU a sean number

LAB # E6-D2-d2+ Continued From Abo.e	lest cour Ms25 A. Mane Method c25 Acid compounds ollected 01/30/86
Analytical Ser. Results by Sample	FRACTION 03A TEST CODE M525 A Date & time Collected 01/30/86
PAGE 20 METRIVED: 02/01/85	SANCE 1D 850112 HED

Minimum detection RD is not detected at EPA detection limit method 625, (Federal Register, 11726/84) At is detected in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1)) we estimated value. Less than method detection limit factor limits should be multiplied by conc. FACTOR

AD-A198 442 INSTALLATION RESTORATION PROGRAM PHASE 2
CONFIRMATION/QUANTIFICATION STAG (U) RADIAN CORP
AUSTIN TX DEC 87 F33615-83-D-4881 3/7 UNCLASSIFIED F/G 24/7



MICROCOPY RESOLUTION TEST CHART

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LAB # 86-02-004	B NAME Method 625 Base/Neutrals Category	WJL VERIFIED BY LAK 5100 COMPOUNDS DETECTED O	COMPOUND	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate ND	butyl benzyl phthalate ND	di-butyl phthalate ND	di-n-octyl phthalate <u>140</u>	diethyl phthalate <u>ND</u>	dimethyl phthalate <u>ND</u>	benzo(a)anthracene A <u>ND</u>	benzo(a)pyrene (4D	benzo(b)fluoranthene *ND	benzo(k)fluoranthene *ND	chrysene A <u>ND</u>	acenaphthylene NO	anthracene B NO)
REPORT ple	ST CUDE M625 ted 01/30/86	ANAL.YST INSTRUMENT	S SCAN EPA	B 61B	829 8	ยะ9 ย	8 668	B 67B	889	g69 a	B 70B	B 71B	8 728	852 238	14B	8 758	B 76.B	8 77B	88Z. a	
, ES			NPDES	418	438	42B	138	158	268	36Z	248	258	อร	97	7.0	8.6	186	28	a e	
Serv Results by	ACTION 03A te & Time Co	02/03/86 02/11/86	RESULT	QN	QN	QN	QN	QN	GN	NO	QN	QN	QN	GN	GN	QN	QN	QN	QN	الر.
Analytical Se Re	FRACTI Date &	3 DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	2,4-trichlorobenzene	hexachlorobenzene	hexachloroethane	(2-chloroethyl)ether	2-chloronaphthalene	1,2-dichlorobenzene	1, 2-dichlorobenzene	1.4.dichiorobanzene	.O/d:ublersbanzidine	S. J. diserbolotomene	20 distratoluene	London, no engling de azame	analystatoria	blorophenyl plenyl ether	
.0	EH	<u>5CU022004C03</u>				-			6 1.5					m					-chlor	
02701786			EPA	1.8	58	88	3 6	10B	188	3 02	15 .3	800	22 13 13 13	907	30.00	398	372	398	408 4-	~
PAGE 21 PECETVED: 0	SAMPLE 10 8	DATA FILE CORC FACTOR	timbes scatt	#1 23	<u>ଥ</u> '†	go:	83 65 67	ଅ ବର	11 11 12 13	168	202	0 1 1	4 (4) (4)	න () ()	ga te ne	20 (3 (3)	63 35 7-3	S 2	173)
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LAB # 86-02-004 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene	fluorene	phenanthrene B	dibenzo(a,h)anthracene	indeno(1,2,3-cd)pyrene	pyrene		
REPORT ple	ACTION 03A TEST CODE M625 B	798	вов	818	828	833	843		
REF Sample	TEST lected	88	328	44B	198	37B	45B		
Serv Results by Sample	N O3A Time Co	QN	2	2	Q	ΩN	2	QN	 Q
Analytical	7. 	4-bromophenyl phanyl ether	bis(2-chloroisopropyl)ether	bis(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene _	i sophorone	naphthalene	nitrobenzene
02/01/86	50112 H	413 4	42B bi	433 b	52 8	538	548	95B	568
PAGE 22 RECEIVED: 0	SAMPLE 10 850112 H20	1.48	12.8	108	න ජි ෆි	85E 2	382	86E 72	403

SURROGATE PECCYERIES

RESULT	d5-nitrobenzene 133	2-fluorobiphenyl 100	d14-terphenyl67	d10-biphenyl
SCAN CODE	<u> 572</u> 351	851 882	1447 ES3	で (多) か

NOTES AND DEPINITIONS FOR THIS REPORT

Ny mantaonana ao EPA detection limit method 625, (Federal Register, 10/26/84). high concentrations. All results apported in <u>UQ/l</u> unless otherwise specified. \star = benzo δ) fluctanthene and benzo(k)fluoranthene comelute. 304K m scan contern or retention time on chromatogram. enzola)anthracane and chrysene comelute,

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Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-004

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Continued From Above

SAMPLE ID 860112 H20

FRACTION 03A TEST CODE M625 B Date & Time Collected 01/30/86

NAME Method 625 Base/Neutrals Category

Minimum detection

sothracene and phenanthrene co-elute in high concentrations.

thereted in reagent blank; background subtraction not performed indicates dilution of sample if greater than one (1). I mentioned value, less than method detection limit. CCOS FACTOR

limits should be multiplied by conc. factor.

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PAGE 24 RECEIVED: 02/01/86	Analytical Serv Results by Sample	JKI	LAB # 86-02-004
SAMPLE ID 850112 H20	FRACTION 03A TES Date & Time Collect	Si CODE MSNS S NAME ted 01/30/86	RACTION 03A TEST CODE MSNS S NAME GCMS Characterization-ABM ste & Time Collected 01/30/85
CHRO # <u>5002004C03</u> SAMPLE SIZE 1	DATE ANALYZED 02/11/36	UNITS 44/1	VERIFIED BY LAK
SCAN	COMPOUND	RESULT	CONF REF LEVEL CMPD

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NAME Pesticides & PCBs by GC/MS LAB # 86-02-004 Category FRACTION 03A TEST CODE MS 608 Date & Time Collected 01/30/86 REFOR Results by Sample Analytical Serv SANPLE ID 850112 H20 02/01/85 RECEIVED 品速品

H H 2 밁 2 2 밁 윋 밁 밁 밁 딤 2 RESULT Ż COMPOUNDS DETECTED VERIFIED BY alpha BHC gamma BHC delta BHC PCB-1242 PCB-1248 PCB-1260 PCB-1016 toxaphene beta bHC PCB-1254 PCB-1232 PCB-1221 COMPOUND M ANALYST EPA 102P 103P 104P 105P 106P 111P 107P 108P 109P 110P 112P 113PNPDES SCAN 25 9 **4**P 56 186 196 20P 216 22P 23P 246 25P DATE EXTRACTED 02/03/86
DATE INJECTED 02/11/86 밁 2 2 2 밁 9 Ê 7 5 밁 밀 2 RESULT ngutaentor epoxide dieldrin chlordane 4, 4'-DDE 4,4'-DDD ephylo aldehyde 4, 4'-DDT alpha endosulfan beta endosulfan endosulfan sulfate heptachlor COMPOUND 5002004003 EPA 406 916 d26 a. G orto O 950 و. ان ان 976 3.0 U. 897 FC0P 101F DATA FILE CONC. FACTOR SCAR NPDES <u>a</u>... 45 • } 105 (); (); 4 4 (1) (1) ۱.. ۲۰ ٠. . . . سر 1/1 ٣

PASE 25 RECEIVED 02/01/85

Analytical Serv REFOR Results by Sample

LAB # 86-02-004 Continued From Above

Sections (Manager) sections

124 CT 10 SE0112 H20

FRACTION 03A TEST CODE MS 608 Date & Time Collected 01/30/86

NAME Pesticides & PCBs by GC/MS Category

ROTES AND TEFTRITIONS FOR THIS REPORT.

SCAR 4 scan number on chromatogram.

 $M^{2} \approx 0.05$ detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified

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Results by Sample Analytical Serv

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LAB # 86-02-004

SAMPLE 1D 850114 H.

FRACTION 04A TEST CODE M625 A
Date & Time Collected 01/30/86

Category

NAME Method 625 Acid Compounds

DATA FILE

DATE EXTRACTED 02/03/86
DATE INJECTED 02/12/86

INSTRUMENT ANAL YST

50002004004 CONC FACTOR

J S M 5100

VERIFIED BY LAK COMPOUNDS DETECTED 일

4-nitrophenol

RESULT

COMPOUND

EPA

NPDES SCAN

RESULT

58A

7

2

59A

54

g

2,4-dinitrophenol

2

2-methyl-4, 6-dinitrophenol

60A

44

64A

46

2

pentachlorophenol

2, 4. 6-trichlorophenol 4-chloro-3-methylphenol COMPOUND A T 21A 女は湯 444 NPDES SCALL 114 ď Dj 4 2

2 S 밁 2-chlorophenol 2, 4-dichlorophenol

2 2 2, 4-dimethylphenol 2-nitrophenol

450 104

65A

phenol

SURRUGATE RECOVERIES

CONTRACTOR SCAN CODE

d5-phenol

461

455

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RESULT

luorophenol

(d (d) (d)

100

. tribromophenol • ,-,<u>;</u> (1) **(4** 计例证

43∵phenol

NOTES

Sperified $95A_{\odot}^{2} \approx$ scan number or ratention time on choosatogram 1400 ug/l unless AND DEFINITIONS FOR THE MEPORT. esults reported in

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PASE 28 RECEIVED: 02/01/85

Analytical Serv

Serv Results by Sample

LAB # 86-02-004 Continued From Above

SAMPLE 1D 850114 H20

FRACILUN 04A TEST CODE M625 A
Date & lime Collected 01/30/86

NAME Method 625 Acid Compounds Category

 $\Omega \simeq 0.00$ contraded at EPA detection limit mathod 6.25, (Federal Register, 11/26/84). St. - detected in reagent blank; background subtraction not performed

J = estimated value) less than method detection limit. FACTOR

Minimum detection indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

51. 266.000	LAB # 86-02-004	5 B NAME Method 625 Base/Neutrals 6 Category	WUL VERIFIED BY LAK 5100 COMPOUNDS DETECTED 0	COMPOUND RESULT	M-nitrosodimethylamine NO	M-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine <u>NO</u>	bis(2-ethylhexyl)phthalate ND	butyl benzyl phthalate ND	di-butyl phthalate ND	di-n-octyl phthalate ND	diethyl phthalate <u>ND</u>	dimethyl phthalate ND	benzo(a)anthracene A ND	benzo(a)pyrene NO	benzo(b)fluoranthene * NO	benzok)fluoranthene *ND	Chrysene A MD	acenaphthylene ND	anthracene B <u>ND</u>
	REPORI nple	ION 04A TEST CODE M625 % Time Collected 01/30/86	ANALYST INSTRUMENT	SCAN EPA	618	62B	638	668	67B	889	698	708	718	728	738	74B	75B	768	77B	788
	Sall	TES 11ect	ci ci	NPDES	41B	43B	428	138	158	268	29B	24B	258	58	6B	78	98	181	8.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	38
, Symmetry S	Sate Rasults by	N 04A Time Co	02/03/86 02/12/86	RESULT	Q	QN	QN	ΩN	ΩN	QN	QN	QN	QN	QN	QN	QN	CZ	QN	QN	QN
S CONTRACTOR SERVING S	Analytical Sof	FRACTION Date & Ti	DATE EXTRACTED C DATE INVECTED C	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzehe_	hexachloroethane_	chloroethyl)ether	-chloronaphthalene	2-dichlorobenzene	3-dichlorobenzene	4-dichlorobeniene	dichlorabewidine	3.4-dinitrossiuene	.e-dimitrotoloene	∵diphenylhydra≀ine _	*luoranthone	engl phengl ether
			1	บั			1, 2, 4			bis(2-	Ċ	-	H	1,	6		Îý.	; ; ;		rchlorophenyl
X	02/01/85	1D 850114 H2P	F11.E <u>\$5002004004</u>	SCAN EPA	13	និន	88	35	15.00	188	803	es.	896	87.73 27.73	89 79 73	95 75 75	20 4 7,	ۥ ••	29 H (4)	10 H 10 H
- 1200 - 1200 - 1200		an an an an an an an an an an an an an a	DATA FILE ENG FACIOS	REPES SO	23	82	ख १	102 61 701	्र १ १	<u> </u>	148	14 0 5	8	ca ed ed	12% 277 113	in Professional Total		÷	318	1 713
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No. 50 September 1		
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PAGE 30 RECEIVED:	02/01/85		Analytical Serv Results by Sample	5 hq	REPORT Jample		LAB # 86-02-004 Continued From Above
SANFLE ID 850114 HED	850114		FRACTION 04A Date & Time	A C011	ACTION 04A TEST CODE M625 B te & Time Collected 01/30/86	225 B 86	NAME Method 625 Base/Neutrals Category
7. T	+133	4-bromophenyl	phenyl ether ND	 DI	88 798	9.8	benzo(ghi)peryleneND
15B	428	bis(2-chloroisopropyl)et	propyl)ether <u>ND</u>	 a	32B 80B	98	fluorene ND
103 201	88.4	bis(2-ch]oroethoxy)methane	hoxy)methane ND	 al	44B 81B	E 3	phenanthrene B
22 27 27	83.8 83.8	hexachl	exachlorobutadiene ND	 al	19B 82B	53	dibenzo(a,h)anthracene ND
358	SOB	hexachlorocyclopentadi	lopentadiene <u>ND</u>	 a	378 838	3.13	indeno(1, 2, 3-cd)pyrene ND
388 2007	2 to 3		isophorone ND	 	45B 84B	EI t	pyrene ND
865 Tulu	558		naphthalene ND	 Gl			
2 %	5.5B		nitrobeniene ND	 			
8 CURROCATE	. RECOVERIES	RIES					
••••••••••••••••••••••••••••••••••••••	SCAN CODE	RESULT	T.				
672	BS1	i) p	d5-nitrobenzene <u>110</u>	Ol.			

MOTES AND BLANDING FOR THIS REPORT

93

2-fluorobiphenyl

64 64 85

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+ 33

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d14-terpheny1

d 10-bupheny 1

All results reported in 194/1 unless otherwise specified. We not detected of FPA detection limit method 625. (Federal Register, 10/26/84) high concentrations → = benzo(b) fluoranthene and benzo(k) fluoranthene comelute 3060 a scan comber or retention time on chromatogram. anio(a) anthracene and chrysene co-elute

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PASE 31 RECEIVED: 02/01/85

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-004 Continued From Above

SANYLE ID 850114 H20

H20 FRACTION 04A TEST CODE M625 B Date & Time Collected 01/30/86

NAME Method 625 Base/Neutrals Category

Minimum detection St. ** detected in reagent blank, background subtraction not performed indicates dilution of sample if greater than one (1). 3 = anthrecene and phenanthrene comelute in high concentrations J = estimated value, less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR

SECOND PROPERTY CONTRACTOR SECONDS -	
AND CONTRACTOR OF STANSARS AND STANSARS OF STANSARS	C
	NOTA NO NO NO NO NO NO NO NO NO NO NO NO NO

LAB # 86-02-004	ACTION 04A TEST CODE MSNS S NAME GCMS Characterization-ABN te % Time Collected 01/30/86 Category	VERIFIED BY LAK	CONF REF RESULT LEVEL CMPD	
Analytical Serv Results by Sample	FRACTION 04A TEST CODE MSNS Date % Time Collected 01/30/86	DATE ANALYZED 02/12/86 UNITS U9/1		No PCBs Detected
PAGE 32 RECEIVED: 02/01/85	SAMPLE 11 250114 HEU	CHRU # <u>\$4025004CO4</u> SAMPLE 517E 1	SCAN COMPOUND	No PC

1 AR # 84-02-004		NAME Pesticides & PCBs by GC/MS Category	WJL VERIFIED BY LAK COMPOUNDS DETECTED O	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PC3-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 11D	PC3-1260 NB	PCB-1016	Toxaphene 100	
140414	- NO.	FRACTION 04A TEST CODE MS 608 Date % Time Collected 01/30/86	ANALYST	SCAN EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	1116	112P	1138	
	Sal	TEST .lecte		NPDES	2P	ЭБ	4 <i>p</i>	E)	18P	19P	20P	21P	22P	23P	24P	13 15 15	
· >:	Results by	ION O4A « Time Col	02/03/86 02/12/86	RESULT N	QN	QN	QN	QN	QN	QN	QN	ON	UD	ND	CLN CLN	ÛN	OZ.
Analutical S		FRACTI Date 8	DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	итарна	endrin aldehyde	teptachlor	heptachlor epoxide
	02/01/85	50114 H20	.E. <u>52.002004504</u> ir	ЕРА	පරති	dOs	٠ 12		a. S	dto	0. 5	a. e	d.o	0. 35	des	40.7P	1018
ි දැ දැ දැ දැ	RECEIVED: C	SANFLE ID 850114 H20	DATA FILE COMC. FACTOR	NPDES SCAM	15	10P	O G	4. 4.0	a.ee	OL Oys	(h 1244 1. 4	- <u>1</u> - d 	(≜. *† 10•	(a. ++ +	(L	0. 4.	(L. (*)
		*****				<u> </u>	2 }};;;;	%);;; Το	3 (%(%)						XX.X		NAMES OF THE PARTY.

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PAGE 34 RECEIVED: 02/01/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-004 Continued From Above

SAMPLE 1D 850114 HED

FRACTION 04A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 01/30/86

AND DEFINITIONS FOR THIS REPORT. SELEN

SCAL = scan number on chromatogram.

ith in not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in micrograms/liter unless otherwise specified

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PAGE 35 RECEIVED: 02/01/85

REPORT Results by Sample Analytical Serv

LAB # 86-02-004

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CONTRACT SUSPENSION CONTRACTOR CONTRACTOR

SANPLE ID 850109 H20

FRACTION OSA TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86

Category

DATE EXTRACTED 02/03/86
DATE INJECTED 02/12/86 DATA FILE <u>50002004005</u>

5100 INSTRUMENT ANALYST

VERIFIED BY COMPOUNDS DETECTED

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RESU						
COMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
SCAN					10A 457	
NPDES SCAN	1 7A	5.A	4	94 1	10A	
RESULT	QN	N	QN	QN	ND	N
COMPOUND	2,4,6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4∵dichlorophenol	2,4-dimethylphenol	2-nitrophenol
ЕРА	214	00 00 04	244	314	344	57A
SCAN						
NPDES SCAN	114	ă A	14	ব বে	46	A A
Z		2	2 1	85		

SURROGATE RECOVERIES

COMPOUND	d5-phenol 97	2-fluorophenol94	2, 4, 6-tribromophenol 67	d3-uhenol
SCAN CODE	456 AS1	316 523	1033 AS3	484

SCALL = scan number or retention time on chromatogram. Ug/l unless otheru 440 DEFINITIONS FOR THIS REPORT. jesuits reported in SHIDN

PAGE 36 RECEIVED: 02/01/86

Analytical Serv Results by Sample

LAB # 86-02-004 Continued From Above

THE STATE OF THE S

SAMPLE ID 850109 H20

FRACTION OSA TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/30/86 Category

Category

No mot detected at EPA detection limit method 625, (Federal Register, 11/26/84) 5L = detected in reagent blank; background subtraction not performed. J = estimated

Minimum detection indicates dilution of sample if greater than one (1). value: less than method detection limit. limits should be multiplied by conc. factor.

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RESULT NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate phthalate di-butyl phthalate di-n-octyl phthalate phthalate dimethyl phthalate Œ benzo(a)pyrene ď. acenaphthy]ene \Box benzo(b)fluoranthene chrysene anthracene benzo(a)anthracene benzo(k)fluoranthene LAB # 86-02-004 Category butyl benzyl diethyl COMPOUND 5100 TEST CODE M625 B Date & Time Collected 01/30/86 EPA 61B 62B 66B 67B 70B INSTRUMENT 63B **68**B 69B 71B 72B 73B 74B 75B 77B 788 ANALYST 768 NPDES SCAN 1631 REPORT Results by Sample 138 41B 26B 43B 42B 15B 29B 24B 25B **SB** 63 76 9E 188 0 DATE EXTRACTED 02/03/86
DATE INJECTED 02/12/86 FRACTION 05A 밁 RESULT 윋 읽 밁 2 2 2 일 밁 밁 2 2 2 N 2 윋 QN. Analytical Serv acenaphthene benzidine 1, 2, 4-trichlorobenzene hexachlorobenzene hexachloroethane bis(2-chloroethyl)ether 1, 3-dichlorobenzene 3,3 dichlorobenzidine 408 4-chlorophenyl phenyl ether 2-chloronaphthalene 1, 2-dichlorobenzene 1,4-dichlorobenzene 2. 4-dinitrotoluene 6-dinitrotaluene 2. tiphonylhydratino COMPOUND 50002004005 SAMPLE 1D 850109 H20 RECEIVED: 02/01/85 EPA 86 125 183 25B 30E 1.03 3 20 22 5B 0.03 2.7B 18 90 DATA FILE CONC. FACTOR 1400 PAGE 37 NPDES 18**7** 00 T 363 113 ام ان 日 () 338 205 51 13 (0) (3) (1) 200 64 76 64 82 435 14 64 65 173

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555551 257/2524 556/5056

STATES STATES IN SECTION

LAB # 86-02-004 Continued From Above	B NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene	fluorene	phenanthrene	dibenzo(a,h)anthracene	indeno(1,2,3-cd)pyrene	pyrene						
REPORT Iple	TEST CODE M525 B ected 01/30/86	79B	808	818	828	838	848						
RE Sampl	TEST llecte	88	328	443	198	37B	45B						
tical Serv Results by Sample	FRACTION OSA TEST CODE M625 Date & Time Collected 01/30/86	ether ND	l)ether <u>ND</u>	nethane ND	tadiene ND	radiene ND	shorone ND	chalene ND	nenzene ND			d9-nitrobenzene <u>106</u>	
Analytica 25	H20	4-bromophenyl phenyl	bis(2-chloroisopropyl)e	bis(2-chloroethoxy)meth	hexach]orobutadi	hexachlorocyclopentadi	isopho	naphthal	nitrobeni	RES	RESULT	d9-nitra	
62/10/29	850109	+13	4 80 b	438	528	82B	ន ប	55B	828	RECOVERIES	adop t	591	
PAGE 38 RECEIVED:	SAMPLE ID 850109 H20	148	1.2B	105	3413	398	0.00	86E 2	207 18	S SURROGATE	9040	C.F.B.	

MOTES AND THE PAINTERS FOR THEE KINDER

89

2- fluorobiphenyl

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7.5 30 623

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d14- terphenyl

dlo biphenyl

No minot detected of EPA detection limit method 625, (Federal Register, 10/26/84) , high concentrations All results recorted in <u>ugAl</u> unless otherwise specified * # begroth in your anthene and benzotk if hour anthene corelute SCAN a cosm newsper or retention time on chromstogram genzo(a) anthracene and chrysene comelute.

PAGE 39 FECEIVED, 02/01/85

Analytical Serv

Serv Results by Sample

LAB # 86-02-004 Continued From Above

SAMPLE 10 850109 H20

FRACIIUM 05A TEST CUDE M625 B Date & Time Collected 01/30/86

NAME Method 625 Base/Neutrals Category

Minimum detection

 Ω = anthracene and phenanthrene co-elute in high concentrations.

SL » detected in reagent blank; background subtraction not performed 3 m estimated value, less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR

SCHOOLS BELLEVING CONTROL CONTROL CONTROL CONTROL CONTROL	SPECIFIC SECRETARY SECRETARY	******	250	201 3000000 SASSASS SECTION 1998

PAGE 40 RECEIVED: 02/01/85	Analytical Serv Results by Sample	REPURT Sample	LAB # 86-02-004
SANPLE 10 860109 H20	FRACTION 05A Date & Time Col	FRACTION 05A TEST CODE MSNS S N Date & Time Collected 01/30/86	FRACTION 05A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 01/30/86 Category
CHRU # 5 <u>002004005</u> SAMPLE STIE 1	PATE ANALYZED 02/12/86	UNITS UG/1	VERIFIED BY LAK
BCAN	сомерича	RESULT	CONF REF LEVEL CMPD
	No PCBs Detected		

NAME Pesticides & PCBs by GC/MS AZ 2 Ê Z 뫼 9 밁 밁 140 밁 RESULT VERIFIED BY COMPOUNDS DETECTED alpha BHC delta BHC PCB-1242 PCB-1254 PCB-1232 PCB-1248 PCB-1250 gamma BHC beta BHC PCD-1221 LAB # 86-02-004 Category COMPOUND M FRACTION 05A TEST CODE MS 608 Date & Time Collected 01/30/86 ANAL.YST EPA 102P 104P 107P 108P 109P 110P 1111 103P 105P 106P NPDES SCAN REPURT Results by Sample 21P 28 18P 19P 20P 22.0 23P **4**P 5P 35 DATE EXTRACTED 02/03/86 DATE INJECTED 02/12/86 물 2 2 밁 2 2 2 Ŝ RESULT Analytical Serv aldrin 4,4'-DDE 4, 4'-DDD alpha endosulfan beta endosulfan endrin dieldrin chlordane 4, 4'-DDT endosulfan sulfate COMPOUND \$0.002004C05 SANPLE ID 860109 H20 PAGE 41 RECEIVED: 02/01/85 0, 5 o 1 b o. O ŭ. dro FPA 692 d06 0. a. T 9.25 DATA FILE CONC FACTOR RPDES SOAM 115 45 (L a.o.r a. 9 6.00 16 0. O-

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toxaphene

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PCB-1016

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24P

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endiin aldehyde

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25P

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heptachlor

=

haptachlor epuxide

1016

1.7P

RECEIVED, 02/01/85

Results by Sample Analytical Serv

LAB # 86-02-004 Continued From Above

SAMPLE 1D 860109 H20

FRACTION OSA TEST CODE MS 608 Date & Time Collected 01/30/86

NAME Pesticides & PCBs by GC/MS Category

RELIES.

SCAN = scan number on chromatogram.

No " not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

AND DEFINITIONS FOR THIS REPORT.

RECEIVED: 02/01/85

Analytical Sery Results by Sample

REPORT

LAB # 85-02-004

SAMPLE ID Resgent Blank 625

FRACTION 06A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

DATA FILE SCROSCO4C06 Conc. FACTOR

DATE EXTRACTED 02/03/85 DATE INJECTED 02/12/86

INSTRUMENT

5100

VERIFIED BY LAK IDS DETECTED 0 COMPOUNDS DETECTED

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enol

RESULT

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enol

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enol

COMPOUND RESULT NPDES S 2, 4, 6-trichlorophenol ND 7A 4-chloro-3-methylphenol ND 5A	RESULT NPD
RESULT ND	RESULT NPDES SCAN ND 7A
	NPDES SCAN 7A 5A

STREATE RECOVERIES

[One do -£_f)	•• ज़ च	
2 4.5.tribromophenol 45	m	
2-fluoraphenal81	13.44 11.15 E.	
d5-phenol85	450 651	
COMPOUND RESULT	SCAN CODE	

SCAN associateber of retention time on chromatogram. Alt jetslis recorted in - ug/l unless others, $^{\prime}$ spec CHEN THE CEPTALITIES FOR THIS REPORT

**3E 44 %ETVED: 02/01/85

REPURI Results by Sample Analytical Serv

LAB # 86-02-004 Continued From Above

Sample ID Respent Blank 625

FRACTION OGA TEST CLOS M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

Category

 10° mos detected at EPA detection limit method 625, (Federal Register, 11/26/84). 5L - detected in reagent blank; background subtraction not performed value: less than method detection limit.

Minimum detection indicates dilution of sample if greater than one (1). linits should be multiplied by conc. ractor. CCNC. FACTOR

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LAB # 86-02-004

REPURT

Analytical Berv

3 VERIFIED BY LAK RESULT NAME Method 625 Base/Neutrals COMPOUNDS DETECTED N-nitrosodi-n-propylamıne bis(2-ethylhexyl)phthalate phthalate phthalate phthalate phthalate <u>~</u> N-nitrosodimethylamine N-nitrosodiphenylamine phthalate penzo(a)pyrene acenaph thy lend anthracene benzo(a)anthracene berzo(b) Fluorunthene benzo(k)fluoranthene Chrysene Category dinethyl d1-butyl diethyl butyl benzyl di-n-octyl COMPOUND 17.7 5100 TEST CODE M525 B Date & Time Collected not specifi 61B 62B **63B** 66B 67B **68**B INSTRUMENT 69B **70B** 718 72B 73B 1413 758 37T 7.7 788 ANALYST NPDES SCAN Results by Sample 41B 43B 42B 138 15B 26B 298 240 25B 160 20 513 éВ 27. 7 38 DATE EXTRACTED 02/03/86 DATE INJECTED 02/12/86 9 FRACTION 06A Ž 밁 2 S 밁 밁 20 2 2 RESULT 2 2 S 물 2 acenaphthene benzidine 1, 2, 4-trichlorobenzene hexachlorobenzene bis(2-chloroethul)ether or withalene to:uene Sapheng Segde asstra hexachioroethane anazuaqe ses intoberzene dishiproferondine 4-chlorophenyl phenyl ethor COMPOUND 0147-8 SayPLE ID Reagent Blank 620 90040000000 02/01/85 20t 1 5 5 188 **公** 公。 <u>نا</u> زن 1/3 () 64 53 73 (C) 10 10 10 (出 た (で) FPA 1B SB \mathfrak{S} 9 DATA FILE 740S PECEIVED. 530*e*5 40 CC න ල () Ω4 :⊶ 23 (1) (1) 00 74 03 •† 00 60 60 ह्य े ं 63 L., ائن ن س ---195 2

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a. A.			85 85		Serv Results by Sample		LAB # 85-02-004 Continued From Above
, ,		e adei	marker 10 Reagent Blank 625	FRACTION OGA Date & Time	TEST CODE	M625 B P	FRACTION OGA TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category
	<u>;</u> ;	418	4-bromophenyl phenyl	l ether ND	88	198	benzo(ghi)perylene ND
		÷	bıs(2-chloroisopropyl)eth	l)ether ND	ace :	вов	fluorene ND
	74 3 42	#3B	bis(2-chloroethoxy)metha	nethane NO	446	818	phenanthrene BND
	25 14 15	528	hexachlorobutadiene	sadiene ND	198	828	dibenzo(a, h) anthracene ND
	(1) (1) (1)	03 (P) (A)	hexachlorocyclopentadiene	adiene ND	378	838	indeno(1,2,3-cd)pyreneND
6	ш Э	ល ។ ភ	isop	isophorone ND	458	848	pyrene 14D
2 1	64 (6- (5)	ល ់ព	naphthale	thalene ND			
.96	4 0 8		nitrobenze	ON enszna			
)			į, L				

SURPOCATE RECOVERIES

RESULT	d5-nitrobenzene 120	2-fluorobiphenyl 76	d14-terphenyl 32	d10-biphenyl
SCAN CODE	579 031	60 60 60 60 60 60 60 60 60 60 60 60 60 6	00 cm	* * 2 % * *

SEC AND PEFFIRE COMMENS REPORT

NO a not data ted at FPA detection limit method 625. (Federal Registral 10726784) high concentration. fil terults exported in <u>ug/l</u> unless otherwise spocified \star \approx bence by Fluoranthene and benzo(k) fluoranthene complute some a seen acober at retention time on chromatogram entolalanthracene and chrysene comelute

PAGE 47 RECEIVED: 02/01/85

Results by Sample Analytical Serv

LAB & 86-02-004 Continued From Above

SAMPLE ID Reagent Blank 625

FRACTION 06A TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category

Minimum detection $\mathbb{R}^{2} \cong \mathsf{detected}$ in reagent blank: background subtraction not performed indicates dilution of sample if greater than one (1). 3~pprox anthracene and phenanthrene co-elute in high concentrations. $\beta \approx estimated value)$ less than method detection $\lim t$ licits should be multiplied by conc. factor.

PAGE 48 FRIETVED: 04/01/86	Analytical Serv Results by Sample	REPORT Sample	LAB # 86-02-004
Sample 10 Reagent Blank 625		TEST CODE MSNS S NAME ected not specified	FRACIIUN 06A TEST CODE NSNS S NAME GCMS Characterization-ABN Date & Time Collected not specified Category
SAMPLE 917E 1	DATE ANALYZED <u>02/12/86</u>	UNLIS UG/1	VERIFIED BY LAK
SCAN	COMPOUND	RESULT	CONF REF LEVEL CMPD
	No PCBs Detected		

NAME Pesticides & PCBs by GC/MS LAK 밁 밁 2 밁 밁 밀 밀 밀 의 RESULT VERIFIED BY COMPOUNDS DETECTED gamma BHC PCB-1242 alpha BHC beta BHC delta BHC PCB-1254 PCB-1232 PCB-1248 PCB-1260 PCB-1221 LAB # 86-02-004 Category COMPOUND NOL. FRACTION 06A TEST CODE MS 608 NA Date & Time Collected not specified ANALYST EPA 102P 103P 104P 105P 106P 107P 109P 110P 108P 1 i l P NPDES SCAN REFORE Results by Sample **SP** 18P 196 20P 21P <u>∂</u> ∂:: in Tu 2 36 **4**P DATE EXTRACTED 02/03/86
PATE INJECTED 02/12/86 밁 9 RESULT g 2 물 2 2 2 밁 9 Analutical Serv aldrin dieldrin chlordane 4, 4'-DDT 4, 4'--DDE 4, 4'-DDD alpha endosulfan neta endosulfan endosulfan sulfate endi i n Jerre Aldebude COMPOUND SATPLE ID Reagent Blank SAS SCD02004006 PagE 49 4ECEIVED: 02/01/85 a a a ი. ტ <u>a</u>: 500 Π. ... <u>d</u>†::: <u>م</u> 0 0,0 3), (1) 1 DATA FILE FACTOR DPDES SERVE ? ... (C) ί<u>ι</u> ... : : • • • <u>ن</u> :: • : • • įĘ, 199

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PAGE 50 RECEIVED: 02/01/86

Results by Sample Analytical Serv

LAB # 86-02-004 Continued From Above

SAMPLE 10 Reagent Blank 625

FRACILON USA TEST CODE MS 608 NAME Pesticides % PCBs by GC/MS Date % Time Collected not specified Category

NOTES

SC4R = scan number on chromatogram AND DEFINITIONS FOR THIS REPORT

All results reported in micrograms/liter unless otherwise specified

RO - not detected at EPA detection limit method 625, (Federal Register, 12/3/79).

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843E 51 RECEIVED: 02/01/85

Analytical Sary

FRACTICE AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

Serv NonReported Work

LAB # 86-02-004

HASSEL BERGARIA, BERGESSES SERVESSES RESERVES RESERVES PERSONAL PERSONAL REPORTED REPORTED PROFESSES

LAB # 86-02-015

REPORT

Analytical Serv

specific matrix was not within acceptable limits indicating * Indicates a value less than 5 times the detection limit. CONTACT CONDVER @ Indicates that spike recovery for this analysis on the Second column confirmation performed for EPA 601 on -01, Potential error for such low values ranges between Analytical Serv TEST CODES and NAMES used on this report PREPARED Radian Analutical Services Footnotes and Comments **Unknown compound eluting here. Austin, Texas 78766 Digestion by Method 3020 Digestion by Method 6010 8501 MoPac Blvd. (512) 454-4797 Box 9948 an interferent present. 02/27/86 17:34:02 Arsenic, low level Chromium, ICPES ICPES Barium, ICPES Silver, ICPES Р. О 50 and 100% Cadmium, PHONE -02, -03. ATTEN 066010 02020 45 GA BA E SR E CD E Carswell AFB (Gen. Dunamics) SAMPLES under separate cover SAMPLE IDENTIFICATION 212-027-27-40 ATTEN LAFTY French RECEIVED: 02/04/86 Plant 4 REPORT Radian Austin PLANT4 Fed Ex ₹ ₹ water 860116 860115 2 860117 FACILITY INVOICE CLIENT ADRK ID COMPANY TAKEN TRANS P. O. * TYPE **김영**임 202

Oil and Grease, Infrared

Selenium, low level

ead, low level

PB GA

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EPA Method 601/GC EPA Method 602/GC

GC 601

Mercuru, Cold Vapor

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Analytical Serv

RECEIVED: 02/04/86

PAGE 2

Annal statistics parases tections

LAB # 86-02-015

<1.0 mg/L <.0002 02/11/86 0.008* <.0050.082 <. 002 0.016* 02/05/86 <1.0 <. 002 C. 003@ RESULTS BY TEST <1.0 mg/L <.0002 02/11/86 **(1.0** 0.012 **c.** 005 **<. 002** 02/02/86 <. 002 0.14 0.091 Sample 02 <1.0 mg/L <.0002 **<. 002** 02/11/86 02/05/86 <. 005 0.029 <1.0 0.011 0.097 0.006* <. 003 late complete)G6010 default units TEST CODE 63020 203

REPORT LAB # 86-02-015 by Sample	01 NAME EPA Method 601/GC Category	ANALYST MCL VERIFIED BY MCL INSTRUMENT COMPOUNDS DETECTED 2	SCAN COMPOUND RESULT	Trichloroethene 6.63	Dibromochloromethane * ND	1, 1, 2-Trichloroethane * ND	cis-1, 3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform ND	1, 1, 2, 2-Tetrachloroethane # ND	Z Tetrachloroethylene # 43.3	Chlorobenzene ND	1, 3-Dichlorobenzene ND	1, 2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND					
Analytical Serv Results	FRACTION OIA TEST CODE GC 60 bate & Time Collected 02/03/86	G DATE INJECTED 02/11/86	COMPOUND RESULT	Chloromethane ND	Bromomethane ND	Vingl Chloride ND	Chloroethane ND	Methylene Chloride ND	Trichlorofluoromethane ND	1, 1-Dichloroethene ND :	1, 1-Dichloroethane ND	trans-1, 2-Dichloroethene ND	Chloroform ND	1, 2-Dichloroethane ND	1, 1, 1-Trichloroethane ND	Carbon Tetrachloride ND	Bromodichloromethane ND	1, 2-Dichloropropane ND ;	trans-1, 3-Dichloropropene ND :	
PAGE 3 RECEIVED: 02/04/86	SAMPLE 10 860115	DATA FILE	SCAN					2	204	1										<u>)</u>

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PAGE 4 RECEIVED: 02/04/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-015 Continued From Above

SAMPLE ID 860115

FRACTION OIA TEST CODE GC 601
Date & Time Collected 02/03/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in $\frac{uq/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1, 1, 2, 2-tetrachloroethane and tetrachloroethylene co-elute SCAN = scan number or retention time on chromatogram

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22. Japanes Pererra Associati	
COSSI DI SASSAMO DI SA	

		ED BY MCL	RESULT	QN	QN	QN		
LAB # 86-02-015	NAME EPA Method 602/GC Category	MCL VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
REPORT Sample	FRACTION OIC TEST CODE GC 602 Date & Time Collected 02/03/86	ANALYST	SCAN	1				
Analytical Serv Results by Sample	FRACTION <u>OIC</u> Date & Time Col	DATE INJECTED <u>02/05/86</u>	RESULT	Q	3.30	QN.	QN	
Analyt		D DATE IN	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
PAGE 5 RECEIVED: 02/04/86	SAMPLE ID 860115	DATA FILE	SCAN	2	206			

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

All results reported in $\frac{\log I_{\perp}}{\log I_{\perp}}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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STANDARD STA 22. B 2 9 일 2 2 밁 Q 2 밀 9 걸 RESULT 1274 COMPOUNDS DETECTED VERIFIED BY Trichloroethene Bromoform 2-Chloroethylvinyl Ether Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene 1, 4-Dichlorobenzene NAME EPA Method 601/GC 1, 1, 2, 2-Tetrachloroethane Tetrach loroethy lene Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene LAB # 86-02-015 Category COMPOUND 뮙 TEST CODE GC 601 FRACTION OZA TEST CODE GC 60 Date & Time Collected 02/03/86 INSTRUMENT ANALYST SCAN REPORT Results by Sample DATE INJECTED 02/11/86 2 2 윋 윋 뮏 9 Š Q 9 9 2 9 2 2 2 trans-1, 2-Dichloroethene 74, 5** RESULT Analytical Serv Chloromethane Chlaroform Carbon Tetrachloride Bromodich loromethane trans-1, 3-Dichloropropene Vinyl Chloride 1, 1-Dichloroethene 1, 1, 1-Trichloroethane Bromomethane Ch loroethane Methylene Chloride Trichlorofluoromethane 1, 1-Dichloroethane 1, 2-Dichloroethane 1,2-Dichloropropane COMPOUND RECEIVED: 02/04/86 SAMPLE 1D 860116 DATA FILE CONC. FACTOR SCAN

NAME OF STREET OF STREET

PAGE 7 RECEIVED: 02/04/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-015 Continued From Above

SAMPLE ID 860116

FRACTION 02A TEST CODE GC 601
Date & Time Collected 02/03/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). *Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified SCAN = scan number or retention time on chromatogram All results reported in_

			STED 1	RESULT	Q	QN	QN	
	LAB # 86-02-015	NAME EPA Method 602/60 Category	MCL VERIFIED BY	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene	
ſ	REPORT Sample	FRACTION O2C TEST CODE GC 602 Date & Time Collected 02/03/86	ANALYST	SCAN	•			
	Serv Results by Sample	ION O2C & Time Col	02/02/86	RESULT	QN	7. 36	Q.	Q
Z O -	Analytical S R	FRACT	<u>D</u> DATE INJECTED <u>02/05/86</u>	COMPOUND		Toluene	Ethyl Benzene	Chlorobenzene
NOIT NO BENEVICE OF STREET	PAGE 8 RECEIVED: 02/04/86	SAMPLE 10 860116	DATA FILE	BCAN		7		

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79). ug/l unless otherwise specified. All results reported in

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된 174 밀 물 2 9 2 9 12.5 밁 밁 믜 밁 RESULT COMPOUNDS DETECTED VERIFIED BY Trichlorosthene Bromoform 1, 3-Dichlorobenzene 2-Chloroethylvinyl Ether Chlorobenzene 1, 2-Dichlorobenzene 1, 4-Dichlorobenzene NAME EPA Method 601/GC Tetrachloroethylene Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1,3-Dichloropropene 1, 1, 2, 2-Tetrachloroethane LAB # 86-02-015 Category COMPOUND RP TEST CODE GC 601 Date & Time Collected 02/03/86 ANALYST INSTRUMENT SCAN REPORT Results by Sample DATE INJECTED 02/11/86 FRACTION 03A 旲 9 2 8 月 2 月 9 2 윋 뮏 2 밁 밁 밁 2 RESULT Analytical Serv Chloromethane Vinyl Chloride Ch loroethane 1, 1-Dichloroethane trans-1, 2-Dichloroethene 1, 1, 1-Trichloroethane 1, 2-Dichloropropane Bromomethane Methylene Chloride Trichlorofluoromethane 1, 1-Dichloroethene Chloroform 1, 2-Dichloroethane Carbon Tetrachloride Bromodichloromethane trans-1, 3-Dichloropropene COMPOUND 0 RECEIVED: 02/04/86 SAMPLE 1D 860117 CONC. FACTOR DATA FILE SCAN

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PAGE 10 RECEIVED: 02/04/86

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-015 Continued From Above

SAMPLE ID 860117

FRACTION 03A TEST CODE GC 601 Date & Time Collected 02/03/86

NAME EPA Method 601/60 Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. <u>ug/L</u> unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in

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-		TED 1	RESULT	Q.	Q	Q	
LAB # 86-02-015	NAME EPA Method 602/GC Category	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1, 2-Dichlorobenzene	
REPORT Sample	FRACTION 03C TEST CODE GC 602 Date & Time Collected 02/03/86	ANAL YST INSTRUMENT	SC A				
ng Serv REPU Results by Sample	TION 03C	ED <u>02/05/86</u>	RESULT	Q	1.44	Q.	Q
Analytical	FRAC	DATE INJECTED 02/05/86	COMPOUND	Ben z en e	Toluene	Ethyl Benzene	Chlorobenzene
PAGE 11 RECEIVED: 02/04/86	SAMPLE ID 860117	DATA FILE DONC. FACTOR	SCAN		2 212		

SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in $\frac{uq/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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Analytical Serv

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DUP 602 DUP 602 DUP 602

01D 02D 03D

DUP601 DUP601 DUP601

01B 02B 03B

Serv REPORT NonReported Work

LAB # 86-02-015

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE PAGE 12 RECEIVED: 02/04/86

STATES OF THE ST AND BULLESSEE BANDA

specific matrix was not within acceptable limits indicating * Indicates a value less than 5 times the detection limit. CONTACT FRENCH @ Indicates that spike recovery for this analysis on the LAB # 86-02-016 Potential error for such low values ranges between Analytical Serv TEST CODES and NAMES used on this report Services Footnotes and Comments Austin, Texas 78766 Pestic: es & PCBs by GC/MS Extraction only - 625 BN/A Method 625 Acid Compounds GCMS Characterization-ABN PREPARED Radian Analytical Method 625 Base/Neutrals 8501 MoPac Blvd (512) 454-4797 P. O. Box 9948 an interferent present REPORT 02/26/86 19:08:05 50 and 100% B∀ PHONE ATTEN Analytical Serv EX 625 M625 A M625 B MSNS S MS 608 SAMPLES DEHL Plant 4, Bldg 4 under separate cover Duplicate Analysis 86013 REPORT Radian Corporation Fort Worth Plant 4 1/30/86 - 2/3/86 Fed Ex 321175260 General Dunamics SAMPLE IDENTIFICATION 212-027-27-40 Austin, Texas Austin, Texes Matrix Spike 86013 Larry French RECEIVED: 02/04/86 Reagent Blank PLANT 4 860117 H20 860112 H20 860113 H20 860115 H20 860116 H20 H20 TYPE TRANS CLIENT COMPANY FACILITY WORK ID TAKEN INVOICE ATTEN 의 의 의 의 의 의 의 의 의 의 214

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PAGE 2 RECEIVED: 02/04/86	Analy	Analytical Serv RESULTS BY	REPORT TEST	LAB # 86-02-016	-016
TEST CODE default units EX_625	Sample <u>01</u> (entered units) 02/04/86	Sample <u>02</u> (entered units) 02/04/86	Sample 03 (entered units) 02/04/86	Sample 04 (entered units) 02/04/86	Sample 05 (entered units) 02/04/86
TEST CODE	Sample 06 (entered units)				
EX 625	02/04/86				
	02/04/86				
	02/04/86				

PAGE 3 RECEIVED: 02/04/86

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-016

NAME Method 625 Acid Compounds

Category

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SAMPLE 1D 860112 H20

FRACTION OIA TEST CODE M625 A
Date & Time Collected 01/31/86

5100 ANALYST INSTRUMENT DATE EXTRACTED 02/04/86
DATE INJECTED 02/14/86 DATA FILE SCU02016C01

VERIFIED BY LAK COMPOUNDS DETECTED

RES	1	1	ł	-		
COMPOUND	4-nitrophenal	2, 4-dinitrophenol	2-methyl-4, 6-dinitrophenol	pentachlorophenol	phenol	
EPA	38A	39A	60A	64A	63 A	
NPDES SCAN	4	ď,	4	Q	10A	
RESULT	QN	QN	Q	Q	Q	Q
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2, 4-dimethylphenol	2-nitrophenol
EPA	21A	22A	24A	314	34A	57A
NPDES SCAN	411	68 64	<u>₹</u> 2 2	₹216	₩.	49

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SURROGATE RECOVERIES

RESULT	d5-phenol 54	ophenol 60	ophenol 39	d3-pheno1
COMPOUND	Ø	2-fluorophenol	2, 4, 6-tribromophenol	ЕР
SCAN CODE	454 AS1	342 AS2	1082 AS3	AS4

ug/l unless otherw'-e specified. SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT. Al) results reported in 35 • 123 • 133 • 133 • 133 • 135 · 135 · 135 · 135 · 135 · 135 · 135 · 135 · 135 · 135 · 135 · 135 · 135 · 135

PAGE 4 RECEIVED: 02/04/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-016 Continued From Above

SAMPLE 1D 860112 H20

FRACTION O1A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 01/31/86 Category

NO $^{
m H}$ not detected at EPA detection limit method 6.25, (Federal Register, 11/26/84).

BL lpha detected in reagent blank; background subtraction not performed. U m estimated value: less than method detection limit.

Minimum detection indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

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NAME Method 625 Base/Neutrals VERIFIED BY COMPOUNDS DETECTED N-nitrosodimethylamine N-nitrosodi-n-propylamine butyl benzyl phthalate N-nitrosodiphenylamine bis(2-ethylhexyl)phthalate di-butyl phthalate di-n-octyl phthalate diethyl phthalate dimethyl phthalate benzo(a)pyrene acenaphthylene benzo(a)anthracene benzo(b)fluoranthene chrysene anthracene benzo(k)fluoranthene LAB # 86-02-016 Category COMPOUND 王 5100 TEST CODE M625 B Date & Time Collected 01/31/86 ANALYST INSTRUMENT EPA 61B 62B 63B **66B** 67B **68B** 69B **71B** 72B 73B 74B 76B 77B 70B 75B **78B** NPDES SCAN REPORT Results by Sample 41B 43B 42B 13B 15B 26B **29B** 24B 25B 78 18B 38 る田 **6B 9B** S S S DATE EXTRACTED 02/04/86 DATE INJECTED 02/14/86 FRACTION 01A RESULT S 뒫 윋 얼 月 윋 윋 2 月 욷 S 윋 윋 2 2 2 Analytical Serv acenaph thene 1, 2, 4-trichlorobenzene 1,2-diphenylhydrazine 40B 4-chlorophenyl phenyl ether benzidine hexachlorobenzene hexachloroethane bis (2-chloroethyl) ether 2-chloronaphthalene 1,2-dichlorobenzene 1,3-dichlorobenzene 1, 4-dichlorobenzene 3,3'dichlorobenzidine 2,4-dinitrotoluene 2,6-dinitrotoluene fluoranthene COMPOUND DATA FILE SCUOSO16CO1 SAMPLE 1D 860112 H20 RECEIVED: 02/04/86 37B EPA 18B 20B 25B 26B **27B** 28B 35B 36B 39B 18 **28** 12B 88 86 NPDES SCAN 46B 33B 36B 11B 16B 20B 21B 22B 23B 27B 288 29B 318 17B CONC. 18 **4B** 218 2

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LAB # 86-02-016 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene ND	fluorene ND	phenanthrene B ND	dibenzo(a, h) anthracene ND	indeno(1,2,3-cd)pyrene ND	QN enema					
JRT	FRACTION OIA TEST CODE M625 B Date & Time Collected 01/31/86	798	BOB	818	82B	838	848					
REPORT Sample	TEST (88	32B	448	198	378	458					
Serv REP Results by Sample	ON OIA Time Col	QN	Q	Q	Q	QN	Q	Q	QN			38
Analytical Serv Resu	FRACTI Date &	4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether	bis(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene	isophorone	naphthalene	nitrobenzene		RESULT	d5-nitrobenzene
)2/04/86	360112 H20	41B 4-brom	42B bis(2-cl	43B bis(2-	528	538 hexaci	348	800	368	RECOVER I ES	SCAN CODE	BS1
PAGE 6 RECEIVED: 02/04/86	SAMPLE 10 860112 H20	148	128	108	348	358	388	398	804 2	SURROGATE RECOVERIES	SCAN	578

NOTES AND DEFINITIONS FOR THIS REPORT

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d14-terphenyl

d10-biphenyl

2-fluorobiphenyl

BS2

852

BS3

1448

BS4

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). A = henzo(a)anthracene and chrysene co-elute $^{+}$ high concentrations. ug/1 unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in_

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PAGE 7 RECEIVED: 02/04/86

Analytical Serv

Serv REPORT Results by Sample

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LAB # 86-02-016 Continued From Above

SAMPLE ID 860112 H20

FRACTION O1A TEST CODE M625 B Date & Time Collected 01/31/86

NAME Method 625 Base/Neutrals Category

B = anthracene and phenanthrene co-elute in high concentrations.

Minimum detection indicates dilution of sample if greater than one (1). value; less than method detection limit. J = estimated CONC. FACTOR:

* detected in reagent blank; background subtraction not performed.

limits should be multiplied by conc. factor.

ical Serv REPORT LAB # 86-02-016 Results by Sample	ACTION 01A TEST CODE MSNS S NAME GCMS Characterization-ABN te & Time Collected 01/31/86 Category	D 02/14/86 UNITS 44/1	CONF REF RESULT LEVEL CMPD	
Analytical S	FRACI	DATE ANALYZED <u>02/14/86</u>	COMPOUND	No PCB's Detected
PAGE 8 RECEIVED: 02/04/86	SAMPLE ID 860112 H20	CHRD # <u>5CU02016C1</u> SAMPLE SIZE 1	BCAN	

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PAGE 9 RECEIVED: 02/04/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-016

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SAMPLE 1D 860112 H2D

NAME Pesticides & PCBs by GC/MS Category

FRACTION O1A TEST CODE MS 608 Date & Time Collected 01/31/86 ANALYBT DATE EXTRACTED 02/04/86
DATE INJECTED 02/14/86 DATA FILE SCU02016C01 CONC. FACTOR

VERIFIED BY LAK COMPOUNDS DETECTED O 퓐

RESULT	QN	QN	2	Q	Q	Q	QN	Q	8	QN	QN	Q	
	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
COMPOUND													
EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
SCAN													
NPDES	25 	e e	4	g.	186	1961	1 20P	216	22P	23P	- 24P	256	
RESULT	Q	ND	QN	QN	Q	QN	QV	QN	ND	ND	N	N	S
	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	endosulfan	endosulfan	sulfate	endrin	aldehyde	heptachlor	epoxide
COMPOUND		. D	C # J	4	4	4	alpha endc	beta endo	endosulfan :		endrin a]	hept	heptachlor e
EPA	89P	90P	916	92P	93P	94P	95P	96P	97P	98P	466	100P	101P
SCAN													
NPDES	1 P	10P	6P	ድ 2	в 229	۶ ۲	11P	12P	14P	14P	15P	16P	17P

2

PAGE 10 RECEIVED: 02/04/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-016 Continued From Above

NAME Pesticides & PCBs by GC/MS Category

SAMPLE ID 860112 H20

FRACTION O1A TEST CODE MS 608 Date & Time Collected 01/31/86 AND DEFINITIONS FOR THIS REPORT.

NOTES

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in micrograms/liter unless otherwise specified SCAN = scan number on chromatogram.

Analytical Serv

REPORT Results by Sample

LAB # 86-02-016

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RECEIVED: 02/04/86

SAMPLE 1D 860113 H20

FRACTION OZA TEST CODE M625 A Date & Time Collected 01/31/86

NAME Method 625 Acid Compounds Category

DATA FILE SCU02016C02 CONC. FACTOR

DATE EXTRACTED 02/04/86 DATE INJECTED 02/14/86

5100 INSTRUMENT ANALYST

VERIFIED BY LAK COMPOUNDS DETECTED

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RESULT

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月

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phenol

4-nitrophenol 2, 4-dinitrophenol 2-methyl-4,6-dinitrophenol pentachlorophenol COMPOUND **60A 58A** 29A **64A 63A** NPDES SCAN 74 S P 44 4 10A RESULT 2 윋 月 2 月 2 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 2-chlorophenol 2, 4-dichlorophenol 2-nitrophenol 2,4-dimethylphenol COMPOUND EPA 21A **22A** 24A **31A** 34A **57A** NPDES SCAN 114 3A **6**A

SURROGATE RECOVERIES

d5-phenol 61 2-fluorophenol 64 2,4,6-tribromophenol 65 d3-phenol	454 AS1 343 AS2 1083 AS3 AS4
d3-phenol61	
COMPOUND	SCAN CODE

SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in

ug/l unless otherw^{.-}e specified.

NATONA O		Water and American	
PAGE 12 PRECEIVED: 02/04/86	Analytical Serv Results by Sample	REPORT Samp 1 e	LAB # 86-02-016 Continued From Above
SAMPLE ID 860113 H20	FRACTION 02A	TEST CODE M625 A	TEST CODE M625 A NAME Method 625 Acid Compounds

thod 625 Acid Compounds Category Date & Time Collected 01/31/86

Minimum detection ND $^{\rm m}$ not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL $^{\rm m}$ detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). value; less than method detection limit. factor. limits should be multiplied by conc. J = estimated CONC. FACTOR:

LAB # 86-02-016	B NAME Method 625 Base/Neutrals Category	S100 COMPOUNDS DETECTED 2	COMPOUND RESULT	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate 3	butyl benzyl phthalate ND	di-butyl phthalate 2 BL	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A ND	benzo(a)pyrene	benzo(b)fluoranthene * ND	benzo(k) fluoranthene * ND	chrysene A ND	acenaphthylene ND	anthracene B <u>ND</u>
JRT	CODE M625 01/31/86	ANALYST _ INSTRUMENT _	SCAN EPA	618	62B	63B	1630 66B	678	1293 688	69B	70B	718	728	738	748	758	768	778	788
REPORT Sample	TEST CODE	ž	NPDES S(41B	43B	42B	13B 16	158	268 15	29B	24B	25B	3B	6B	78	98	188	28	38
Serv Results by Sample	ACTION OZA TEST (02/04/86 02/14/86	RESULT N	QN	Q	QN	Q	Q	Q	Q	QN	QN	Q	Q	Q	QN	Q	Q	Q
Analytical Se Re	FRACTI Date 8	DATE EXTRACTED DATE INJECTED	самРаима	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1,2-dichlorobenzene	1, 3-dichlorobenzene	1,4-dichlorobenzene	3,3'dichlorobenzidine	2, 4-dinitrotoluene	2, 6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	enyl phenyl ether
02/04/86	SAMPLE ID 860113 H20	TLE <u>3CU02016C02</u>	EPA	18	5B	88 1, 2, 4	86	12B	188 bis(2-	208 2-	258 1,	26B 1,	278 1,	288 3,3,	358 2	368	378 1,2-	39B	40B 4-chlorophenyl
PAGE 13 RECEIVED: 02/04/86	SAMPLE ID	DATA FILE CONC. FACTOR	NPDES SCAN	18	48	46B	338	36B	S S	891 126	208	218	22B	23B	278	288	298	318	178

PARTICIONAL PROPERTIDAD METERICANS SERVICES DE PROPERTIDAD DE PROP

	STANDARD RESERVES ESSENCE ASSESSED FOR THE PROPERTY OF THE PRO	\$22222 KKKK
ZOLA ZOLA ZOLA ZOLA ZOLA ZOLA ZOLA ZOLA		y ***

LAB # 86-02-016 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene ND	fluorene ND	phenanthrene B ND	dibenzo(a, h) anthracene ND	indeno(1, 2, 3-cd)pyrene ND	Derene ND			
REPORT ip 1 e	ACTION 02A TEST CODE M625 B	798	808	818	828	838	848			
REP Sample	TEST lected	88	32B	448	19B	37B	45B			
Serv REP Results by Sample	v <u>OZA</u> Time Col	Q	Q	QV	QN	Ø	Q	Q	QN	
Analytical	F. Da	4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether	bis(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene	1sophorone	naphthalene	nitrobenzene	RIES
02/04/86	860113	41B	42B	43B	32B	33B	848 848	33B	26B	RECOVE
PAGE 14 RECEIVED:	SAMPLE 1D 860113 H20	148	12B	108	348	358	88E 2	86E 2	- 8 27	SURROGATE RECOVERIES

RESULT	d5-nitrobenzene 75	2-fluorobiphenyl 7	d14-terphenyl80	d10-biphenyl
CODE	BS1	BS2	823	BS4
SCAN CODE	379	852	1449	

NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in uq/l unless otherwise specified. ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). * henzo(a)anthracene and chrysene co-elute '- high concentrations. * = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram.

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Analytical Serv

Serv Results by Sample

LAB # 86-02-016 Continued From Above

SAMPLE 10 860113 H20

FRACTION OZA TEST CODE M625 B Date & Time Collected 01/31/86

NAME Method 625 Base/Neutrals Category

Minimum detection BL = detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations. J = estimated value; less than method detection limit. limits should be multiplied by conc. factor.

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	02/04/86
PAGE 16	RECEIVED:

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-016

SAMPLE ID 860113 H20

FRACTION OZA TEST CODE MSNS S Date & Time Collected 01/31/86

NAME GCMS Characterization-ABN Category

CHRD # 5CU02016C2 SAMPLE SIZE 1

REF CMPD CONF LEVEL

RESULT

DATE ANALYZED 02/14/86

No PCB's Detected

COMPOUND

SCAN

VERIFIED BY LAK

UNITS UG/1

GENERAL MANAGEMENT CONTRACTOR OF	
Secretary and the second secon	ZOLVE OR ALLON

CONTRACTOR SECURITION OF SECUR

NAME Pesticides & PCBs by GC/MS LAB # 86-02-016 Category TEST CODE MS 608 FRACTION OZA TEST CODE MS 60 Date & Time Collected 01/31/86 REPORT Results by Sample Analytical Serv SAMPLE ID 860113 H20 RECEIVED: 02/04/86 PAGE 17

N O 밀 일 2 g ᄝ 呈 ᄝ 9 일 윋 외 일 RESULT VERIFIED BY COMPOUNDS DETECTED alpha BHC beta BHC gamma BHC delta BHC PCB-1242 PCB-1254 PCB-1232 PCB-1248 PCB-1260 PCB-1016 toxaphene PCB-1221 COMPOUND 핅 EPA 102P 106P ANALYST 103P 104P 105P 107P 109P 110P 111P 113P 108P 112P NPDES SCAN 9 46 å 18P 19P 20P **21P** 22P **23P 24P** 25P 2 DATE EXTRACTED 02/04/86 DATE INJECTED 02/14/86 윋 RESULT 9 2 일 2 뮏 2 밀 2 밁 밁 밁 aldrin dieldrin 4, 4'-DDE 4, 4'-DDD alpha endosulfan beta endosulfan endrin heptachlor epoxide chlordane 4, 4'-DDT endosulfan sulfate endrin aldehyde heptachlor COMPOUND DATA FILE SCU02016C02 CONC. FACTOR EPA **89P** 90P 91P 936 92P **94**P 95P 96P **97**6 **98**P 100P 101P **466** NPDES SCAN 16 10P 9 4 11P 12P 14P 14P 156 16P 17P 6 2 230

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SAMPLE 1D 860113 H20

REPORT Results by Sample Analytical Serv

LAB # 86-02-016 Continued From Above

FRACTION <u>02A</u> TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 01/31/86

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN # scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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REPORT Results by Sample Analytical Serv

LAB # 86-02-016

NAME Method 625 Acid Compounds

Category

SAMPLE 10 860115 H20

FRACTION 03A TEST CODE M625 A
Date & Time Collected 02/03/86

뒤 5100 INSTRUMENT ANALYST DATE EXTRACTED 02/04/86 DATE INJECTED 02/14/86 50002016003 DATA FILE CONC

Y Y VERIFIED BY

月

4-nitrophenol

58A

7A

59A

S S

RESULT

COMPOUND

밁

2, 4-dinitrophenol

2

2-methyl-4,6-dinitrophenol

60A

4

64A

₽

65A

104

S

pentachlorophenol

2

phenol

COMPOUNDS DETECTED

RESULT NPDES SCAN 9 2 S 욷 2 윋 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 2, 4-dimethylphenol 2-nitrophenol 2-chlorophenol 2,4-dichlorophenol COMPOUND EPA 21A 22A 24A 314 34A **57A** NPDES SCAN 40 11A **6**A 8 B ₹ 232

SURROGATE RECOVERIES

8 RESULT d5-phenol 2-fluorophenol d3-phenol 2, 4, 6-tribromophenol COMPOUND AS2 AS3 AS4 SCAN CODE AS1 1033 456 348

ug/l unless otherw^{.-}e specified SCAN = scan number or retention time on chromatogram. AND DEFINITIONS FOR THIS REPORT. All results reported in NOTES

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REPORT Results by Sample Analytical Serv

LAB # 86-02-016 Continued From Above

SAMPLE ID 860115 H20

FRACTION 03A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/03/86 Category

NO = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed.

Minimum detection indicates dilution of sample if greater than one (1). J = estimated value; less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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LAB # 86-02-016	B NAME Method 625 Base/Neutrals Category	VERIFIED BY LAK 5100 COMPOUNDS DETECTED 1	COMPOUND RESULT	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate 2	butyl benzyl phthalate ND	di-butyl phthalate ND	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A ND	benzo(a)pyrene ND	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	chrysene A ND	acenaphthylene ND	anthracene B ND	
	ODE M625 02/03/86	ANALYST INSTRUMENT	N EPA	61B	62B	8E9	<u>0</u> 668	67B	889	869	70B	71B	72B	738	748	75B	768	778	788	
REPORT Sample	C 3	A	NPDES SCAN	418	43B	428	13B 1630	158	26B	29B	24B	25B	8	6B	78	98	188	28	38	
lts by	ACTION O3A TEST (02/04/86 02/14/86	RESULT N	QN	QN	ON	QN	QN	QN	QV	Q	QN	QN	Q	QN	Q	Q	QN	QN	. /
Analytical Serv Resu	FRACTI Date &	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaph thene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1,4-dichlorobenzene	3,3'dichlorobenzidine	2, 4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	phenyl phenyl ether	
02/04/86	50115 H20	500201603	EPA	18	33	88 1.2	98	12B	18B bis(208	258	26B	278	288 3,	358	368	378 1,	39B	40B 4-chlorophenyl	
PAGE 21 RECEIVED: 02	SAMPLE ID 860115 H20	DATA FILE CONC. FACTOR	NPDES SCAN	18	84	46B	338	36B	2 / 2	234 234	20B	218	22B	238	27B	288	29B	318	178	

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a ax	PAGE 22 RECEIVED	PAGE 22 RECEIVED: 02/04/86		Analytical Serv Recults by Sample	REP Samula	REPORT m le	Continued From Above
=		. 06/04		55 CATOCAL			
G)	AMPLE I	SAMPLE ID 860115 H20	5 H20	FRACTION 03A TEST CODE M625 Date & Time Collected 02/03/86	TEST llected	TEST CODE M625 B ected 02/03/86	NAME Method 625 Base/Neutrals Category
	14B	418	4-bromophenyl phenyl	1 ether ND	8B	79B	benzo(ghi)perylene
	12B	42B	bis(2-chloroisopropyl)eth	1) ether ND	32B	808	fluorene
	108	43B	bis(2-chloroethoxy)metha	methane ND	44B	818	phenanthrene
	34B	52B	hexachlorobutadie	tadiene ND	198	828	dibenzo(a,h)anthracene
	35B	33B	hexachlorocyclopentadie	tadiene ND	378	838	indeno(1,2,3-cd)pyrene
2	388	34B	iso	i sophorone ND	45B	848	anarnd
23	39B	338	hqen	naphthalene ND 1			
35	40B	26B		nitrobenzene ND :			
U)	SURROGATE	re RECOVERIES	ERIES				
	SC	SCAN CODE	RESULT				

NOTES AND DEFINITIONS FOR THIS REPORT.

8

d5-nitrobenzene_

91

2-fluorobiphenyl

d14-terphenyl_

883

1448

BS2

852

BS1

579

BS4

d10-biphenyl

NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). ⇒ henzo(a)anthracene and chrysene co∽elute '¬ high concentrations. uq/l unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in___

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Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-016 Continued From Above

SAMPLE 10 860115 HZU

FRACTION 03A TEST CODE M625 B Date & Time Collected 02/03/86

NAME Method 625 Base/Neutrals Category

Minimum detection background subtraction not performed. indicates dilution of sample if greater than one (1). and phenanthrene co-elute in high concentrations. J = estimated value; less than method detection limit. limits should be multiplied by conc. factor. = detected in reagent blank; CONC. FACTOR:

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	02/04/86
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PAGE	_

Results by Sample Analytical Serv

REPORT

LAB # 86-02-016

SAMPLE ID 860115 H20

FRACTION 03A TEST CODE MSNS S Date & Time Collected 02/03/86

NAME GCMS Characterization-ABN Category

DATE ANALYZED 02/14/86

UNITS UG/1

VERIFIED BY LAK

CHRO # 5CU02016C3 SAMPLE SIZE 1

No PCB's Detected

COMPOUND

SCAN

REF CMPD CONF LEVEL

RESULT

22.22.22

Analytical Serv REPORT Results by Sample SAMPLE 1D 860115 H2D PAGE 25 RECEIVED: 02/04/86

LAB # 86-02-016

KASSE BESSELVES

FRACTION 03A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/03/86 Category

COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
AN EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	1116	112P	113P	
NPDES SC	25	e e	45	ů,	18P	19P	20P	21P	22P	23P	24P	25P	
RESULT	Q	N	QN	Q	Q	Q	Q	Q	QN	Q	Q	QN	N
COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
Z EPA	899	90P	916	92P	93P	94P	95P	96P	979	486	466	100P	101P
NPDES SCA	16	10P	49	<u>م</u> 2	ե 23	ե 8	116	12P	14P	14P	15P	16P	17P
	SCAN EPA COMPOUND RESULT NPDES SCAN EPA COMPOUND	SCAN EPA COMPOUND RESULT NPDES SCAN EPA COMPOUND RESU	SCAN EPA COMPOUND RESULT NPDES SCAN EPA COMPOUND RESULT 89P aldrin ND 2P 102P alpha BHC 40P dieldrin ND 3P 103P beta BHC	VPDES SCAN EPA COMPOUND RESULT NPDES SCAN EPA RESULT NPDES N	SCAN EPA COMPOUND RESULT NPDES SCAN EPA COMPOUND RESULT 90P dieldrin ND 39 103P beta BHC 91P chlordane ND 4P 104P gamma BHC 92P 4,4,4,-DDT ND 5P 105P delta BHC	4P DES SCAN EPA COMPOUND RESULT NP DES SCAN EPA COMPOUND Alpha BHC RESULT 10 49 102P 103P 103P 103P 103P 103P 103P 103P 104P 104P 104P 104P 104P 104P 105P 105P	4PDES SCAN EPA COMPOUND RESULT NPDES SCAN EPA COMPOUND RESULT NPDES SCAN EPA COMPOUND Alpha BHC RESULT NPDES SCAN EPA Alpha BHC Alpha BHC	1P SCAN EPA COMPOUND RESULT NDES SCAN EPA COMPOUND RESULT 1P 90P 41e1drin ND 2P 102P beta BHC 6P 91P 4P 103P 9P beta BHC 7P 92P 4A 4 - DDT ND 18P 105P 4e1ta BHC 8P 93P 4A 4 - DDT ND 18P 106P PCB-1242 9P 94P 4A 4 - DDD ND 19P 108P PCB-1242 11P 95P 108P PCB-1221	1P 89 COMPOUND Aldrin ND ESULT 2P 102P Alpha BHC Alpha BHC 10P 90P dieldrin ND dieldrin 3P 103P beta BHC 6P 91P chlordane ND dieldrin AP 104P gamma BHC 7P 92P 4,4'-DDT ND dieldrin ND dieldrin ND dieldrin ND dieldrin 8P 93P 4,4'-DDE ND dieldrin 105P PCB-1242 9P 94P 4,4'-DDE ND dieldrin 107P PCB-1232 11P 95P 108P PCB-1232 PCB-1232	1P GOMPOUND RESULT NPDES SCAN EPA COMPOUND Alpha BHC 10P 90P dieldrin ND 2P 103P beta BHC 6P 91P chlordane ND 4P 104P gamma BHC 7P 92P 4,4'-DDT ND 18P 105P delta BHC 8P 93P 4,4'-DDE ND 18P 105P PCB-1242 9P 94P 4,4'-DDB ND 19P 107P PCB-1221 11P 95P alpha endosulfan ND 2PP 108P PCB-1221 12P 95P beta endosulfan sulfate ND 2PP 109P PCB-1232	1D GOMPOUND RESULT NPDES SCAN EPA COMPOUND Alberta RESULT 10P 49P 102P 102P 103P beta BHC 6P 41P 103P 103P beta BHC 6P 44 4 - DDT ND 18P 104P chalta BHC 7P 92P 44 4 - DDT ND 18P 105P chalta BHC 8P 93P 44 4 - DDE ND 18P 105P chalta BHC 9P 94P 44 4 - DDE ND 19P 105P chalta BHC 11P 95P alpha endosulfan ND 20P 108P chalta BHC 12P 95P beta endosulfan sulfate ND 21P 109P chalta BHC 14P 97P 97P 109P PCB-1232 chalta BHC chalta BHC 14P 97P 10P 10P PCB-124B chalta BHC chalta BHC 14P 97P 10P 10	1P SCAN EPA COMPOUND RESULT NPDES SCAN EPA COMPOUND Alpha BHC RESULT 1P 90P 410P 3P 103P 5P 103P 5P 104P 5P 104P 5P 6P 5P 6P <	1P SPAN FRANCE SCAN FRANCE And An And And And And And And And And A

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Analytical Serv REPORT Results by Sample

LAB # 86-02-016 Continued From Above

SAMPLE ID 860115 H20

FRACTION 03A TEST CODE MS 608 Date & Time Collected 02/03/86

NAME Pesticides & PCBs by GC/MS Category

> AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND $^{\pm}$ not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

SOUTH DOCUMENTS

Transport Times

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REPORT Results by Sample Analytical Serv

LAB # 86-02-016

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SAMPLE ID 860116 H20

FRACTION 04A TEST CODE M625 A
Date & Time Collected 02/03/86

NAME Method 625 Acid Compounds Category

DATA FILE SCU02016C04 CONC. FACTOR

DATE EXTRACTED 02/04/86 DATE INJECTED 02/14/86

5100 INSTRUMENT ANALYST

VERIFIED BY LAK COMPOUNDS DETECTED 윋

4-nitrophenol

RESULT

COMPOUND

밀

2, 4-dinitrophenol

2

2-methyl-4,6-dinitrophenol

2

pentachlorophenol

phenol

RESULT 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 2-chlorophenol 2, 4-dichlorophenol COMPOUND 21A 22A 24A 31A 344 EPA NPDES SCAN 11A 8 4 4 240

60A SBA **59A 654** 64A NPDES SCAN 10A 45B 4 4 4 S S 月 2 皇 윋 2

SURROGATE RECOVERIES

57A

月

2-nitrophenol

2,4-dimethylphenol

영 RESULT d5-phenol 2-fluorophenol 2, 4, 6-tribromophenol d3-phenol COMPOUND **AS2** SCAN CODE ASB AS4 AS1 454 1082 341

ug/l unless otherw''e specified SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT. All results reported in

PAGE 28 RECEIVED: 02/04/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-016 Continued From Above

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SAMPLE ID 860116 H20

FRACTION 04A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/03/86 Category

Minimum detection $\mathrm{BL}_-=$ detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). U m estimated value; less than method detection limit. factor. limits should be multiplied by conc. CONC. FACTOR:

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

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Analytical Serv REPORT Results by Sample

LAB # 86-02-016

NAME Method 625 Base/Neutrals Category FRACTION 04A TEST CODE M625 B Date & Time Collected 02/03/86 SAMPLE ID 860116 H20

	IFIED BY LAK DETECTED 0	RESULT	ine ND	ine ND	ine ND	ate ND	ate ND	ate ND	ate ND	ate ND	ate ND	A	ene ND	*	¥	A	ene ND	B
	VERIFIED COMPOUNDS DETEC	COMPOUND	N-nitrosodimethylamine	N-nitrosodiphenylamin	sodi-n-propylamin	xyl)phthal	l benzyl phthala	di-butyl phthalat	di-n-octyl phthala	diethyl phthalat	dimethyl phthalate	benzo(a)anthracene	benzo(a)pyrene	benzo(b)fluoranthene	benzo(k)fluoranthene	chrysene	acenaphthylene	anthracene
	5100	Č	N-nin	N-nit	N-nitrosod	bis(2-ethylhe	butyl	Ü	di-		•	ben 2		benzo(benzo(
	ANALYST INSTRUMENT	SCAN EPA	61B	62B	8E9	899	67B	889	869	708	718	728	738	74B	75B	76B	778	788
		NPDES	418	43B	42B	138	158	26B	29B	24B	25B	5B	6B	78	98	188	28	38
	02/04/86 02/14/86	RESULT	QN	Q	Q	Q	Q	QN	N N	2	QN	Q.	Q	Q.	N N	QN	QN	Q
•		œ	ı	1	I		ł					1						1
1	DATE EXTRACTED O	COMPOUND	acenaphthene	benzidine	4-trichlorobenzene	hexachlorobenzene	hexachloroethane	:-chloroethyl)ether	-chloronaphthalene	,2-dichlorobenzene	, 3-dichlorobenzene	,4-dichlorobenzene	'dichlorobenzidine	2,4-dinitrotoluene	2,6-dinitrotoluene	-diphenylhydrazine	fluoranthene	henyl phenyl ether
	3CU0201604 DATE EXTRACTED DATE INJECTED	COMPOUND	£	₽	8B 1, 2, 4-trichlorobenzene		hexachloroet	bis(2-chloroethyl)e	2-chloronaphtha	1,2-dichloroben	1,3-dichlorobenz	1, 4-dichloroben	3,3'dichlorobenzid	2,4-dinitrotol	2,6-dinitrotol	1,2-diphenylhydra	fluorant	4-chlorophenyl phenyl e
	DATE EXTRACTED DATE INJECTED		acenaphth	benzid	1, 2, 4-trichloroben	hexachloroben	368 128 hexachloroethane				7		70				318 398 fluoranthene	phenyl e

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REPORT LAB # 86-02-016 by Sample Continued From Above	ACTION 04A TEST CODE M625 B NAME Method 625 Base/Neutrals te & Time Collected 02/03/86 Category	1 8B 79B benzo(ghi)perylene	1 328 80B fluorene	44B 81B phenanthrene B	198 828 dibenzo(a, h) anthracene	378 83B indeno(1,2,3-cd)pyrene	458 84B pyrene								
Analytical Serv REP 36 Results by Sample	FR	4-bromophenyl phenyl ether ND	bis(2-chloroisopropyl)ether ND	bis(2-chloroethoxy)methane ND	hexachlorobutadiene ND	hexachlorocyclopentadiene ND	isophorone	naphthalene ND	nitrobenzene ND	RIES	RESULT	d5-nitrobenzene 80	2-fluarabiphenyl 89	d14-terphenyl60	
02/04/86	860116	41B	42B b	43B	32B	338	34B	55B	26B	RECOVERIES	SCAN CODE	3 BS1	8825	2 383	1
PAGE 30 RECEIVED:	SAMPLE 10 860116 H20	148	128	10B	348	80.00	888 2	24:	3 80 80	SURROGATE	SCAN	578	825	1449	# w.*

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). $oldsymbol{ au}$ henzo(a)anthracene and chrysene co-elute $\dot{\cdot}$ high concentrations. uq/l unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. reported in_ All results

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-016 Continued From Above

STATES STATES

SAMPLE ID 860116 H20

NAME Method 625 Base/Neutrals Category

Minimum detection

FRACTION 04A TEST CODE M625 B Date & Time Collected 02/03/86

B = anthracene and phenanthrene co-elute in high concentrations.

BL = detected in reagent blank; background subtraction not performed

U = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

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PAGE 32 RECEIVED: 02/04/86	Analytical Serv Results by Sample	REPORT Sample	LAB # 86-02-016
SAMPLE 10 860116 H20	FRACTION 04A Date & Time Co	FRACTION 04A TEST CODE MSNS S Date & Time Collected 02/03/86	TEST CODE MSNS S NAME GCMS Characterization-ABN lected 02/03/86 Category
CHRG # <u>5CU02016C4</u> SAMPLE SIZE 1	DATE ANALYZED <u>02/14/86</u>	UNITS UG/1	VERIFIED BY LAK
SCAN	COMPOUND	RESULT	CONF REF LEVEL CMPD
	No PCB's Detected		

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PAGE 33 RECEIVED: 02/04/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-016

SAMPLE 1D 860116 H20

FRACTION 04A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/03/86

ED FA	RESULT	QN	QN	S	N	N	QN	QN	QN	QN	QN	N	QN	
VERIFIED BY COMPOUNDS DETECTED		alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
COMPOL	COMPOUND													
ANALYST	EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
ANA	SCAN	••	•						••	••	••	•••	••	
.al.al	NPDES SCAN	2	g	4	ic G	18P	19P	20P	21P	22P	23P	24P	25P	
02/04/86 02/14/86	RESULT	QN	QN	QN	Q	Q	QN	QN	QN	QN	QN	QN	QN	N N
DATE EXTRACTED DATE INJECTED		aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	endosulfan	endosulfan	sulfate	endrin	aldehyde	heptachlor	epoxide
DATE DATE	COMPOUND			U				alpha en	beta en	endosulfan		endrin ald	4	heptachlor
DATA FILE <u>SCU02016C04</u> CONC. FACTOR	ЕРА	89P	40b	916	92P	93P	94P	95P	96P	97P	98P	d66	100P	101P
A FILE FACTOR		00	0	0	σ	5	0	5	0	6	O.	o	10	10
DAT.	NPDES SCAN	1 P	10P	6 P	7P	98	9	11P	12P	14P	14P	13P	16P	17P
•	4-			2	2	46								

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PAGE 34 RECEIVED: 02/04/86

Analytical Serv

Results by Sample

REPORT

LAB # 86-02-016 Continued From Above

SAMPLE ID 860116 H20 NOTES

NAME Pesticides & PCBs by GC/MS Category All results reported in micrograms/liter unless otherwise specified. FRACTION 04A TEST CODE MS 608 Date & Time Collected 02/03/86 SCAN = scan number on chromatogram. AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79).

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RECEIVED: 02/04/86

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-016

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SAMPLE ID 860117 H20

FRACTION 05A TEST CODE M625 A Date & Time Collected 02/03/86

Category

NAME Method 625 Acid Compounds

DATA FILE SCU02016COS CONC. FACTOR

DATE EXTRACTED 02/04/86
DATE INJECTED 02/14/86

5100 ANALYST INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED

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RESULT

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11A 21A 2.4.6—trichlorophenol ND 7A 58A 4—nitrophenol ND 7A 58A 4—nitrophenol A—nitrophenol A—nitrop	પ્									
11A 21A 2,4,6-trichlorophenol ND 7A 58A ND 1A 22A 4-chloro-3-methylphenol ND 1 5A 59A 2,4- ND 1A 24A 2-chlorophenol ND 1 4A 60A 2-methyl-4,6- ND 2A 31A 2,4-dichlorophenol ND 1 9A 64A pent 5A 33A 34A 2,4-dimethylphenol ND 1 10A 457 65A 6A 57A 2-nitrophenol ND 1 10A 457 65A			CAN	EPA	COMPOUND	RESULT	NPDES SCAN			₹
RA 22A 4-chloro-3-methylphenol ND 5A 59A ND 1A 24A 2-chlorophenol ND 4A 60A 2-methyl- ND 2A 31A 2,4-dimethylphenol ND 10A 45Z 65A 3A 34A 2,4-dimethylphenol ND 10A 45Z 65A 6A 57A 2-nitrophenol ND 1 10A 45Z 65A	eriorio Carrierio	111		21A	2, 4, 6-trichlorophenol	1	7A	58A	4-nitrophenol	ı
1A 24A 2-chlorophenol ND 4A 60A ND 2A 31A 2A 4A 6A 6A 3A 34A 2A 4A 4A 6A 6A 6A 57A 2A 4A 2A 4A 6A 457 65A		80 4		22A	4-chloro-3-methylphenol	QN	ę,	39A	2, 4-dinitrophenol	ı
2, 4-dichlorophenol ND 9A 64A 600 3A 34A 2, 4-dimethylphenol ND 10A 457 65A 60 57A 2-nitrophenol ND	2 \$%	4		24A	2-chlorophenoi		44 4	60A	2-methyl-4, 6-dinitrophenol	I
3A 34A 2,4-dimethylphenol ND i 10A 457 65A 6A 57A 2-nitrophenol ND i		2A		31A	2, 4-dichlorophenol	QN	4 6	64A	pentachlorophenol	- 1
6A 57A 2-nitrophenol		34		34A	2,4-dimethylphenol	QN	10A 45Z		phenol	į
	ولإفالا	6		57A	2-nitrophenol					

SURROGATE RECOVERIES

RESULT	d5-pheno166	2-fluorophenol 73	romophenol 40	d3-phenol
COMPOUND		2-f1	2, 4, 6-tribromophenol	
CODE	AS1	AS2	AS3	AS4
SCAN CODE	455	344	1033	

NOTES AND DEFINITIONS FOR THIS REPORT.

ug/l unless otherw^{..}e specified. SCAN = scan number or retention time on chromatogram. All results reported in

RECEIVED: 02/04/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-016

Continued From Above

SAMPLE 1D 860117 H20

FRACTION OSA TEST CODE M625 A
Date & Time Collected 02/03/86

NAME Method 625 Acid Compounds Category

Minimum detection NO = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. factor. limits should be multiplied by conc. CONC. FACTOR:

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	Neutrals	IFIED BY LAK DETECTED O	RESULT	a u	ON Bu	ND en	te ND	te ND	te ND	te ND	te ND	t e ND	A	ne ND	*	*	A A	ne ND	B
LAB # 86-02-016	B NAME Method 625 Base/Neutrals Category	S100 COMPOUNDS DETECT	COMPOUND	N-nitrosodimethylamine	N-nitrosodiphenylamine	N-nitrosodi-n-propylamine	bis(2-ethylhexyl)phthalate	butyl benzyl phthalate	di-butyl phthalate	di-n-octyl phthalate	diethyl phthalate	dimethyl phthalate	benzo(a)anthracene	benzo(a)pyrene	benzo(b)fluoranthene	benzo(k)fluoranthene	chrysene	acenaphthylene	anthracene
REPORT Iple	Collected 02/03/86	ANALYST INSTRUMENT	SCAN EPA	61B	62B	63B	899	67B	889	869	708	718	728	738	748	758	768	778	788
Sad	TEST llecte	Ā	NPDES	41B	43B	42B	138	15B	26B	29B	248	25B	38	89	78	98	18B	2B	38
Serv Results by	FRACTION OSA Date & Time Co	02/04/86 02/14/86	RESULT	Q	QN	QN	QN	Q	Q	Q	Q	Q	Q	QN	Q	QN	QN	QN	QN
Analytical Se Re	FRACTI Date 8	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	3,3'dichlorobenzidine	2,4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	ophenyl phenyl ether
/04/86	10117 H20	5CU02016C05	ЕРА	18	5B	88 1,2	9B	12B	18B bis(20B	258	268	27B	288 3,	35B	36 B	37B 1,	398	40B 4-chlorophenyl
PAGE 37 RECEIVED: 02/04/86	SAMPLE 10 860117 H20	DATA FILE CONC. FACTOR	NPDES SCAN	18	48	468	338	89E 2	118	891 50	208	218	22B	23B	27B	28 B	29B	318	178

\$57.6553 PKGGGS954 \$5	
\$\$\$\$\$\$\$\$ _\$\$\$\$\$\$\$\$ _\$\$\$\$\$\$\$\$	Tz 1
A PROPERTY SECURITION	To a wood

LAB # 86-02-016 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene ND	#luorene ND	phenanthrene B ND	dibenzo(a,b)anthracene ND	indeno(1, 2, 3-cd)pyrene ND	Dutene ND							
	2	798	BOB	818	828	838	848							
REPORT Sample	FRACTION 05A TEST CODE M625 Date & Time Collected 02/03/86	88	328	44B	198	37B	45B							
lts by	V OSA Fime Co	QN	Q	Q	Q	ΩN	Q	S	Q			78	82	62
Analytical Serv Resu		4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether	bis(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene	isophorone	naphthalene	nitrobenzene	Ş.	RESULT	d5-nitrobenzene	2-fluorobiphenyl_	d14-terphenyl
PAGE 38 RECEIVED: 02/04/86	SAMPLE ID 860117 H20	418 4-	42B bis	43B bi	52B	33B h	34B	55B	568	RECOVERIES	CODE	BS1	BS:2	BS3
38 IVED: 0	E 10 8	m	m	m	æ	m	m	m	m	SURROGATE R	SCAN CODE	280	853	1450
PAGE 38 RECEIVE	SAMPL	14B	128	108	34B	338	388	39B	40B	SURRE				
								2	? 2	51				

NOTES AND DEFINITIONS FOR THIS REPORT.

d10-biphenyl

BS4

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). = henzo(a)anthracene and chrysene co-elute '· high concentrations. ug/1 unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in__

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PAGE 39 RECEIVED: 02/04/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-016 Continued From Above

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SAMPLE 1D 860117 H20

FRACTION OSA TEST CODE M625 B Date & Time Collected 02/03/86 FRACTION 05A

NAME Method 625 Base/Neutrals Category

Minimum detection ≡ detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations.U = estimated value; less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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AGE 40 ECEIVED: 02/04/86	Analytical Serv Results by Sample	REPORT Sample	LAB # 86-02-016
AMPLE 10 860117 H20	FRACTION 05A Date & Time Col	TEST CODE MSNS S NA lected 02/03/86	FRACTION 05A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/03/86
CHRD # 5CU02016C5	DATE ANALYZED <u>02/14/86</u>	UNITE 44/1	VERIFIED BY LAK
SCAN	COMPOUND	REBULT	CONF REF LEVEL CMPD
	No PCB's Detected		

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REPORT Results by Sample Analytical Serv

LAB # 86-02-016

SAMPLE ID 860117 H20

FRACTION 05A TEST CODE MS 608 Date & Time Collected 02/03/86

NAME Pesticides & PCBs by GC/MS Category

> ANALYST ATE EXTRACTED 02/04/86 DATE INJECTED 02/14/84 DATE EXTRACTED 5CU02016C05 DATA FILE CONC. FACTOR

COMPOUNDS DETECTED 퓐

PK PK

VERIFIED BY

S 윋 S 2 윋 2 2 2 S 月 일 윋 RESULT alpha BHC beta BHC gamma BHC PCB-1242 PCB-1248 delta BHC PCB-1254 PCB-1232 PCB-1260 PCB-1016 toxaphene PCB-1221 COMPOUND EPA 102P 103P 105P 106P 104P 107P 108P 109P 110P 111P 112P 113P NPDES SCAN မှ 18P 19P 20P 216 22P **23P 24P** Ч 46 5 25P RESULT 윋 윋 月 윋 윋 月 윋 윋 S 2 2 윋 뮏 dieldrin aldrin 4, 4'-DDE 4, 4'-DDD alpha endosulfan beta endosulfan endrin endrin aldehyde chlordane heptachlor epoxide 4, 4'-DDT endosulfan sulfate heptachlor COMPOUND EPA **89P** 91P 936 94P 90P 92P 95P 96P 97P 101P 98P **99P** 100P NPDES SCAN 100 11P 129 146 14P 156 16P 17P 15 **6**P 99 96 254 2

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REPORT Results by Sample Analytical <u>Serv</u>

LAB # 86-02-016 Continued From Above

SAMPLE 1D 860117 H20

FRACTION 05A TEST CODE MS 608 Date & Time Collected 02/03/86

NAME Pesticides & PCBs by GC/MS Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

RECEIVED: 02/04/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-016

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SAMPLE ID Duplicate Analysis 86013

FRACTION 06B

NAME Method 625 Acid Compounds Date & Time Collected not specified TEST CODE M625 A

Category

DATA FILE 2CD02016C06 CONC. FACTOR

DATE EXTRACTED 02/04/86 DATE INJECTED 02/16/86

INSTRUMENT

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VERIFIED BY COMPOUNDS DETECTED

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4-nitrophenol 2-methyl-4,6-dinitrophenol 2, 4-dinitrophenol pentachlorophenol phenol COMPOUND EPA **58A 60A 64**A **39A 63A** NPDES SCAN 459 10A 4 **4** A ₹ S 4 RESULT 뮏 2 밁 윋 2 윋 2, 4, 6-trichlorophenol 2-chlorophenol 2, 4-dichlorophenol 2-nitrophenol 4-chloro-3-methylphenol 2, 4-dimethylphenol COMPOUND 21A **22A** 24A 314 34A **57A** NPDES SCAN 2 4 46 11A **4**9 8 256 2

SURROGATE RECOVERIES

	d3-phenol	AS4	
103	2, 4, 6-tribromophenol	AS3	1075
115	2-fluorophenol	AS2	336
76	d5-phenol	AS1	458
RESULT	COMPOUND	CODE	SCAN CODE

AND DEFINITIONS FOR THIS REPORT. NOTES

ug/l unless otherw're specified. SCAN = scan number or retention time on chromatogram. All results reported in

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Analytical Serv

Results by Sample

LAB # 86-02-016

Continued From Above

SAMPLE ID Duplicate Analysis 86013

FRACTION <u>06B</u> TEST CODE <u>M625 A NAME Method 625 Acid Compounds</u>
Date & Time Collected not specified <u>Category</u>

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). $\mathrm{BL}=\mathrm{detected}$ in reagent blank; background subtraction not performed.

Minimum detection indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-016

NAME Method 625 Base/Neutrals TEST CODE M625 B FRACTION 06B SAMPLE ID Dublicate Analusis 86013

specified Category	WUL VERIFIED BY LAK	COMPOUND RESULT	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate 3	butyl benzyl phthalate ND	di-butyl phthalate 8 BL	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalateND	benzo(a)anthracene A ND	benzo(a) pyrene ND	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	chrysene A <u>ND</u>	acenaphthylene ND	anthracene B ND
- 1	ANALYBT	EPA	61B	62B	8E9	66B	67B	688	69 B	70B	718	72B	73B	74B	75B	76B	778	788
lected not	ANALYBT INSTRUMENT	NPDES SCAN	41B	43B	42B	13B 1646	15B	26B 1305	298	24B	258	5B	6B	78	86	188	28	3 B
Date & Time Collected	02/04/86 02/16/86	RESULT N	Q	Q	Q	Q	Ñ	Q	QN	QN	Q	Q	ΩN	Ω Z	ΩN	Q	Q	QN
Date &	TRACTED		thene	idine	a u a z u	zene	thane	ther	lene	2678	zene	zene	dine	luene	luene	azine	thene	ether
212 80013	DATE EXTRAC DATE INJEC	COMPOUND	acenaphth	benzid	4-trichloroben	hexachlorobenz	hexachloroeth	-chloroethyl)e	-chloronaphtha	,2-dichloroben	, 3-dichloroben	,4-dichloroben	'dichlorobenzi	2,4-dinitroto]	2, 6-dinitroto)	-diphenylhydra	fluoranth	henyl phenyl
sicate Analysis dovid	Ω	PA COMPOUND	1B acenaph	58 benzi	8B 1, 2, 4-trichlorobenz	9B hexachlorober		8B bis(2-chloroethyl)et	OB 2-chloronaphthal	:5B 1,2-dichlorobenz	:68 1,3-dichlorobenz	.78 1, 4-dichlorobenz	:88 3,3'dichlorobenzid	158 2,4-dinitrotolu	16B 2, 6-dinitrotolu	1,2-diphenylhydraz		4-chlorophenyl
SAMPLE ID DUPINCATE ANALYSIS GOULS	a <u>90</u> 3	NPDES SCAN EPA COMPOUND					12B hexachloroe	18B bis(2-chloroethyl)e	20B 2-chloronaphtha	258 1,2-dichloroben	26B 1,3-dichloroben	27B 1,4-dichloroben	23B 3,3'dichlorobenzi	27B 35B 2,4-dinitroto	28B 36B 2,6-dinitroto	29B 37B 1,2-diphenylhydr	31B 39B fluoran	

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	02/04/86
PAGE 46	RECEIVED:

Analytical Serv REPORT Results by Sample

LAB # 86-02-016 Continued From Above

KANSON CALABATA DONO 2000 BESTACA

NAME Method 625 Base/Neutrals ied Category	benzo(ghi)perglene	fluorene ND	phenanthrene B ND	dibenzo(a, h) anthracene ND	indeno(1,2,3-cd)pyrene ND	Durene ND		
M625 B	798	808	818	828	83B	848		
ACTION 06B TEST CODE M625 B N te & Time Collected not specified	88	32B	44B	198	37B	80		
ACTION O6B	Q	Q	Q.	Q	N N	Q	Q	Q
□ ≈	1	١	ı.	ł	ı	ı	ı	ł
E B	18 4-bromophenyl phenyl ether	28 bis(2-chloroisopropyl)ether	38 bis(2-chloroethoxy)methane	28 hexachlorobutadiene	3B hexachlorocyclopentadiene	48 isophorone	58 naphthalene	6B nitrobenzene
SAMPLE ID Duplicate Analysis 86013 FRACT	418 4-bromophenyl phenyl ether	42B bis(2-chloroisopropyl)ether		•	_		55B naphthalene	56B nitrobenzene

SURROGATE RECOVERIES

SCAN CODE	CODE	RESULT
288	BS1	d5-nitrobenzene 94
864	BS2	2-fluorobiphenyl7
1461	BS3	d14-terphenyl106
	BS4	d10-biphenyl

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). = henzo(a)anthracene and chrysene co-elute '- high concentrations. ug/l unless otherwise specified. * # benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in

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Analytical Serv

REPORT Results by Sample

Continued From Above LAB # 86-02-016

Contract Con

NAME Method 625 Base/Neutrals

SAMPLE ID Duplicate Analysis 86013

Category

FRACTION OGB TEST CODE M625 B N/Date & Time Collected not specified

Minimum detection detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). $\mathsf{B}\ =\ \mathsf{anthracene}\ \mathsf{and}\ \mathsf{phenanthrene}\ \mathsf{co-elute}\ \mathsf{in}\ \mathsf{high}\ \mathsf{concentrations}.$ U m estimated value: less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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Serv REPORT Results by Sample

LAB # 86-02-016

SAMPLE ID Duplicate Analysis 86013

FRACTION O6B TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected not specified Category

VERIFIED BY LAK

UNITS UG/1

REF CMPD CONF LEVEL

REBULT

CHRO # 2CD02016C6 SAMPLE SIZE 2

DATE ANALYZED 02/16/86

No PCB's Detected

COMPOUND

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Analytical Serv

REPORT Results by Sample

LAB # 86-02-016

SAMPLE ID Duplicate Analysis 86013

FRACTION 06B TEST CODE MS 608 N/ Date & Time Collected not specified

NAME Pesticides & PCBs by GC/MS

Category

퓐 ANALYST DATE EXTRACTED 02/04/86 DATE INJECTED 02/16/86 DATA FILE 2CD02016C06 CONC. FACTOR

VERIFIED BY LAK COMPOUNDS DETECTED

COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delte BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND		
I EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P		
NPDES SCAN	S.	90	4	S.	18P	19P	20P	21P	22P	236	24P	25P		
RESULT	QV	Q	QN	Q	Q	QN	QN	Q	QN	ΩN	ΩN	QN	QN	
COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide	
EPA	89P	90P	916	92P	93P	94P	95P	96P	97P	98P	466	100P	101P	
NPDES SCAN	1 P	10P	a ₅	բ 2	ե 62	d 6	11P	12P	14P	14P	15P	16P	17P	

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Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-016 Continued From Above

25.24 CONTRACT 2575.05 25.25.25.

Charles facada andreananana

SAMPLE ID Duplicate Analysis 86013

FRACTION 06B TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

RECEIVED: 02/04/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-016

SAMPLE ID Matrix Spike 86013

FRACTION <u>o6A</u> TEST CODE <u>M625 A NAME Method 625 Acid Compounds</u> Date & Time Collected not <u>specified</u> Category

DATA FILE SCM02016C06 CONC. FACTOR

DATE INJECTED DATE EXTRACTED

INSTRUMENT ANALYST

02/03/86 02/18/86

퓐 5100

LAK 디 COMPOUNDS DETECTED VERIFIED BY

38

4-nitrophenol

RESULT

COMPOUND

74

52

2, 4-dinitrophenol

82

pentachlorophenol

54

phenol

2-methyl-4, 6-dinitrophenol EPA **60A 58A 59A 64A 65**A 979 RESULT NPDES SCAN 459 5A 969 4A 1057 9A 1172 Z A 10A 57 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 2, 4-dichlorophenol 2, 4-dimethylphenol 2-nitrophenol 2-chlorophenol COMPOUND EPA **21A** 31A **22A** 24A **34**A **57A** 6A 630 NPDES SCAN 478 665 636 841 177 4 114 **8**4

SURROGATE RECOVERIES

COMPOUND	d5-pheno1 <u>56</u>	2-fluorophenol <u>226</u>	2, 4, 6-tribromophenol 43	d3-phenol
CODE	AS1	AS2	AS3	AS4
SCAN CODE	457	349	1084	

All results reported in% Recov. unless otherw're specified SCAN = scan number or retention time on chromatogram AND DEFINITIONS FOR THIS REPORT NOTES

RECEIVED: 02/04/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-016 Continued From Above

SAMPLE ID Matrix Spike 86013

FRACTION O6A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed. d * estimated value; less than method detection limit.

Minimum detection CONC. FACTOR: indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

265

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46	

PAGE 53 RECEIVED: 02/04/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-016

AA 4 Q 85 68 50 98 88 34 RESULT 87 47 NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine butyl benzyl phthalate di-butyl phthalate phthalate diethyl phthalate dimethyl phthalate benzo(a)pyrene bis(2-ethylhexyl)phthalate benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene Category di-n-octyl COMPOUND 5100 Date & Time Collected not specified TEST CODE M625 B 61B 66B 74B 76B INSTRUMENT EPA 62B **63B** 67B **68B** 69B 70B 71B 72B 73B 75B **ANALYST** 563 1533 1618 1624 1063 923 NPDES SCAN 1632 1295 1035 1826 1832 1907 1741 43B 13B 15B 26B 78 42B 29B 24B 25B **3**B **6**B **9B** 18B 41B DATE EXTRACTED 02/03/86 DATE INJECTED 02/18/86 45 8 2 99 49 FRACTION 06A RESULT 102 96 99 **67** 111 41 acenaph thene 1, 2, 4-trichlorobenzene 2, 6-dinitrotoluene 1, 3-dichlorobenzene 1, 4-dichlorobenzene 3, 3 'dichlorobenzidine 2, 4-dinitrotoluene 1,2-diphenylhydrazine benzidine hexachlorobenzene bis(2-chloroethyl)ether 2-chloronaphthalene 1, 2-dichlorobenzene hexachloroethane COMPOUND SAMPLE ID Matrix Spike 86013 5CH02016C06 EPA 25B 26B 27B 28B 35B 36B 37B 18 12B 188 20B 38 88 **9B** DATA FILE 498 532 964 470 530 505 993 NPDES SCAN 1413 679 1145 574 858 1614 **4B** 233 288 CONC 46B 33B 21B 22B 27B 29B 18 36B 113 16B 20B 266

62

acenaphthylene

77B

934

110

fluoranthene

39B

1337

31B

78B

1203

38

44

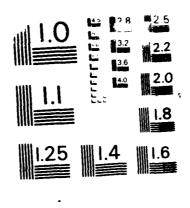
40B 4-chlorophenyl phenyl ether

17B 1044

106

anthracene

INSTALLATION RESTORATION PROGRAM PHASE 2
COMPIRMATION/QUANTIFICATION STAG (U) RADIAN CORP
AUSTIN TX DEC 87 F33615-83-D-4881 5-8198 442 F/G 24/7 UNCLASSIFIED



MICROCOPY RESOLUTION TEST CHART

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Secretary Designation	-

KADIAN	

PAGE 54 RECEIVED: 02/04/86 SAMPLE ID Matrix Sni	02/04/86 Matrix Soi
SMITE ID HALFIX SPIRE COULS	ratrix spike dovis
14B <u>1121</u> 41B 4-bromophenyl phenyl	41B 4-bromophenyl
345 42B bis(2-chloroisopropyl)	42B
<u>651</u> 43B bis(2-chloroethoxy)met	43B
717 528 hexachlorobutad	32B
829 538 hexachlorocyclopentad	23B
<u>618</u> 548 isopho	548
<u>688</u> 558 naphtha	55B
<u>584</u> 568 nitroben	268
SURROGATE RECOVERIES	RECOVERIES
SCAN CODE RESULT	CODE
581 BS1 d5-nitrob	. BS1
854 BS2 2-fluorobip	852
<u>1450</u> BS3 d14-terp	BS3
BS4 d10-bip	

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). = henzo(a)anthracene and chrysene co-elute in high concentrations. All results reported in Recov. unless otherwise specified. * = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram.

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PAGE 55 RECEIVED: 02/04/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-016 Continued From Above

SAMPLE ID Matrix Spike 86013

FRACTION <u>OGA</u> TEST CODE <u>M625 B</u> NAME <u>Method 625 Base/Neutrals</u>
Date & Time Collected <u>not specified</u> Category

Category

B = anthracene and phenanthrene co-elute in high concentrations.

= detected in reagent blank; background subtraction not performed. U = estimated value; less than method detection limit. CONC. FACTOR:

indicates dilution of sample if greater than one (1). factor. limits should be multiplied by conc.

Minimum detection

2 268

RECEIVED: 02/04/86

Analytical Serv

REPORT

Results by Sample

LAB # 86-02-016

CONTRACTOR STREET, CONTRACTOR STREET,

SAMPLE ID Reagent Blank

FRACTION OGC TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category Category

VERIFIED BY LAK	RESULT	QN	QN	QN	QN
WUL VERIFIED BY COMPOUNDS DETECTED	COMPOUND	4-nitrophenol	2, 4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol
YST	EPA	38A	39A	60A	64A
ANALYST	RESULT NPDES SCAN	7.A	e E	4	9.A
02/04/86 02/16/86	RESULT	QN	QN	QN	QN
DATE EXTRACTED <u>02/04/84</u> DATE INJECTED <u>02/16/84</u>	COMPOUND	2, 4, 6—trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol
DATA FILE <u>2CB02016C06</u> IC. FACTOR1				4	
A FILE S FACTOR _	SCAN EPA	21A	22A	24A	31A
DATA FILE CONC. FACTOR	NPDES SCAN	114	®	14	2A
		XXXX	2 \.\\	. (6)30	69 83

2

phenol

63A

10A

9

2-nitrophenol

2, 4-dimethylphenol

344

3A

57A

P

SURROGATE RECOVERIES

15-phenol 63	prophenol 79	omophenol 78	d3-phenol
Ū	2-fluc	2, 4, 6-tribro	•
AS1	ASS	AS3	AS4
465	351	1096	
	AS1 d5-phenol d5	AS2 2-fluorophenol	AS2 2-fluorophenol 2, 4, 6-tribromophenol

ug/l unless otherw'~e specified SCAN = scan number or retention time on chromatogram NOTES AND DEFINITIONS FOR THIS REPORT. All results reported in

PAGE 57 RECEIVED: 02/04/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-016 Continued From Above

SAMPLE ID Reagent Blank

FRACTION OGC TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). SL = detected in reagent blank; background subtraction not performed. J = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

Minimum detection

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PAGE 58 RECEIVED: 02/04/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-016

TEST CODE M625 B NAME Method 625 Base/Neutrals FRACTION OGC SAMPLE ID Reagent Blank

specified Category	WJL COMPOUNDS DETECTED 1	COMPOUND	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate ND	butyl benzyl phthalate ND	di-butyl phthalate2	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A ND	benzo(a)pyrene ND	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	chrysene A ND	acenaphthylene ND	anthracene B ND	
- 1	ANALYST TRUMENT	EPA	61B	62B	8E9	66B	67B	889	869	70B	718	. 72B	73B	748	75B	76B	778	788	
llected not	INS	NPDES SCAN	418	43B	42B	138	158	26B 130Z	29B	248	258	1 00	6B	78	98	188	28	38	
& Time Collected	<u>02/04/86</u> 02/16/86	RESULT	Q N	Q	Q	Q	Q	QN	Q	Q	N	Q N	Q	Q.	Q	Q	Q	QN	
Date 8	2CB02016CO6 DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	3,3'dichlorobenzidine	2, 4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	4-chlorophenyl phenyl ether	
	DATA FILE <u>208020</u> IC. FACTOR	SCAN EPA	18	86	88	9.8	12B	188	20B	25B	26B	27B	288	35B	36B	378	398	40B 4-c	••
	DATA CONC. F	NPDES S	0	48	46B	338	89E 2	<u>=</u> 27	1	20B	218	22B	238	27B	288	29B	318	178	

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J -	
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PAGE 59 RECEIVED: 02/04/86	02/04/		Analytical Serv Resu	its bu	Serv REPORT Results bu Sample		continued From Above	
SAMPLE ID Reagent Blank	Reager	it Blank	FRACTION O6C	390	TEST CODE M625 B		A ME	S
2 4-2			Date & T	ime Co	Jate & Time Collected not	specified	ed Category	
4 40	418	4-bromophenyl phenyl	phenyl ether	Q	88	798	benzo(ghi)perylene <u>ND</u>	9
128	42B	bis(2-chloroisopropyl)	propul)ether	Q	328	808	fluorene ND	ᄝ
108	43B	bis(2-chloroethoxy)me	hoxy)methane	Q)	448	818	phenanthrene B ND	2
	52B	hexach1	hexachlorobutadiene	Q	198	828	dibenzo(a, h) anthracene ND	2
338	538	hexachlorocyclopentad	lopentadiene	Q	378	838	indeno(1,2,3-cd)pyrene ND	밁
388	348		isophorone	g	45B	848	purene ND	뒫
398	338		naphthalene	g				
2 2	36B		nitrobenzene	Q				
SEURROGATE !	E RECOVERIES	ERIES						
338	SCAN CODE	RESULT	Ľī					
5	392 BS1	S P	d5-ni trobenzene	20				
66	866 BS2	2-4	2-fluorobiphenyl	33				
1463	<u>53</u> BS3		d14-terphenyl	37				
(MACOMPON	B S4		d10-biphenyl					

NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in uq/l unless otherwise specified. ND = not detected at EPA detection limit method 625. (Federal Register, 10/26/84). = henzo(a)anthracene and chrysene co-elute '- high concentrations. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram.

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SAMPLE ID Reagent Blank

Analytical Serv REPORT Results by Sample

LAB # 86-02-016 Continued From Above

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Category

FRACTION O6C TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified

BL - detected in reagent blank; background subtraction not performed = anthracene and phenanthrene co-elute in high concentrations. J = estimated value: less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

Minimum detection

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PAGE 61 RECEIVED: 02/04/86

REPORT Analytical Serv Results by Sample

LAB # 86-02-016

ALLAN CONTRACTOR CONTRACTOR

SAMPLE ID Reagent Blank

FRACTION OGC TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected not specified Category

DATE ANALYZED 02/16/86

UNITS 49/1

VERIFIED BY LAK

REF CMPD CONF LEVEL

CHRD # 2CB02016C6 SAMPLE SIZE 1

No PCB's Detected

COMPOUND

SCAN

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PAGE 62 RECEIVED: 02/04/86

REPORT Analytical Serv REPO Results by Sample

LAB # 86-02-016

\$5550 BSS (0.000 BSS (

SAMPLE ID Reagent Blank

FRACTION OGC TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

ED CAK	RESULT	Ž	ND	QN	QN	QN	N	Q	N	N	N	N	N	
VERIFIED BY JNDS DETECTED		alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
VER COMPOUNDS	COMPOUND													
MUL														
ANALYST .	EPA	102P	103P	104P	103P	106P	107P	108P	109P	110P	111P	112P	113P	
ANA	SCAN													
	NPDES	29	96	4	ę.	18P	19P	20P	216	22P	23P	24P	25P	
<u>02/04/86</u> 02/14/86	RESULT	QN	QN	QN	QN	QN	QN	QN	Q	QN	QN	QN	QN	Q
DATE EXTRACTED DATE INJECTED		aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	endosulfan	endosulfan	n sulfate	endrin	aldehyde	heptachlor	r epoxide
DATE DATE	COMPOUND							alpha e	beta e	endosulfan		endrin	Ē	heptachlor
20802016006	∢	<u>a</u> .	Q.	a.	<u>a.</u>	<u>a.</u>	Q.	Q.	Q.	<u>a</u> .	<u>a</u>	<u>a</u> .	<u>a</u> .	Q .
	N EPA	89P	906	916	92P	93P	94P	93P	96P	97P	98P	d66	100P	101P
DATA FILE CONC. FACTOR	S SCAN	4 4	ē.	6 P	7P	98 8	g.	٥	d.	<u>a</u>	<u>a</u>	ē.	<u>a</u> .	ē
CONC	NPDES	+4	10P	4	2		75	116	12P	146	14P	15P	16P	17P

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Analytical Serv REPORT Results by Sample

LAB # 86-02-016 Conti

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PAGE 1 RECEIVED: 02/05/86

Analytical Serv REP 02/27/86 17:39:51

LAB # 86-02-019

tical Services

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PREPARED Radian Analu BY 8501 MoPac B P. O. Box 994	ATTEN ATTEN PHONE (512) ASA-A7		1 1
		SAMPLES 3	Gen. Dunamics)
REPORT Radian TO B1. 4 Austin	ATTEN Larry French	CLIENT PLANT4 COMPANY Plant 4	ACILITY Carswell AFB (Gen. Dunamics)
REPORT RATOR	ATTEN	CLIENT PLANT4 COMPANY Plant 4	ACILITY

Many unknown compounds in high quantities eluting on EPA 602 for -04. 2nd column confirmation on EPA 601 for -04 **Unknown compound eluting here.

CONTACT CONDVER

Footnotes and Comments

Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between 50 and 100%

specific matrix was not within acceptable limits indicating **e Indicates that spike recoveru for this analusis on the** an interferent present

Analutical Serv TEST CODES and NAMES used on this report Silver, ICPES

Digestion by Method 3020 Digestion by Method 6010 and Grease, Infrared Hydrocarbons in soi Mercuru, Cold Vapor Selenium, low level Arsenic, low level EPA Method 601/GC EPA Method 602/GC Chromium, ICPES ead, low level Cadmium, ICPES Barium, ICPES 011 HG CA 063020 066010 GC 601 GC 602 PB GA AS GA SE GA HZ IN BA E CD E CRE

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under separate cover

P. D. # INVOICE

212-027-27-40

WORK ID groundwater

TAKEN TRANS TYPE

NR. AM Fed Ex

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PAGE 2 RECEIVED: 02/05/86

Analytical Serv REPORT RESULTS BY TEST

LAB # 86-02-019

IESI CUDE default units	demple VI	Sample UZ (entered units)	Centered units)	centered units)	Sample U3
AG_E			0.007*	0.012	
AS_GA			<. 005	<. 005	
BA E			0.082	0.13	
			₹. 002	₹. 002	
CR =			0.000*	0.33	
- C2			02/05/86	02/05/86	
			02/11/86	02/11/86	
HC_IR ug/g HC_CA	·		<1.0 mg/L < 0002	<1.0 mg/L <0002	(1.0 mg/L
ug7mı ONG_IR	(1.0	(1.0	(1.0	(1.0 (1.0	(1.0
PB_GA			₹. 002€	0.004*	
SE GA			0.003*	<.002€	

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AVX	1	
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PAGE 3 RECEIVED: 02/05/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-019

SAMPLE 10 860120

FRACTION 03C

DATE INJECTED 02/06/86

DATA FILE CONC. FACTOR

TEST CODE 6C 601 Date & Time Collected 02/04/86

NAME EPA Method 601/GC ANALYST INSTRUMENT

뮙

Category

COMPOUNDS DETECTED VERIFIED BY COMPOUND

SCAN

REBULT

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REBULT

月

Dibromoch loromethane

SCAN

Chloromethane COMPOUND

Bromomethene

2

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月

Vinyl Chloride

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Chloroethane Methylene Chloride

2

Trichlorofluoromethane

2

月

1,1-Dichloroethene

1, 1-Dichloroethane

9

trans-1, 2-Dichloroethene

2

Chloroform

2

皇 1, 2-Dichloroethane

1, 1, 1-Trichloroethane

욷

2

Carbon Tetrachloride

Bromodichloromethane

밁

2 1,2-Dichloropropane

S

trans-1, 3-Dichloropropene

Trichloroethene

2 1, 1, 2-Trichloroethane

2 2-Chloroethylvinyl Ether

cis-1, 3-Dichloropropene

9

Q 9 Bromoform 1, 1, 2, 2-Tetrachloroethane 月 Tetrach loroethy lene

Ş Chlorobenzene 문 1, 3-Dichlorobenzene

9 1, 2-Dichlorobenzene 2 1, 4-Dichlorobenzene

279 2

PAGE 4 RECEIVED: 02/05/86

Analytical Serv REPO Results by Sample

LAB # 86-02-019 Continued From Above

8000000 NOVENDER SSSSSSSS

SAMPLE 1D 860120

FRACTION 03C TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/04/86

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79).#1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in

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COMPOUNDS DETECTED FRACTION OBE TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 02/04/86 LAB # 86-02-019 Category ANALYST INBTRUMENT SCAN REPORT Results by Sample DATE INJECTED 02/05/86 RESULT Analytical Serv COMPOUND Benzene ECEIVED: 02/05/86 SAMPLE ID 860120 DATA FILE CONC. FACTOR SCAN 281

VERIFIED BY

月 月 9 RESULT 1, 4-Dichlorobenzene 1. 3-Dichlorobenzene 1, 2-Dichlorobenzene COMPOUND 2 0.64 Ethyl Benzene Toluene

AND DEFINITIONS FOR THIS REPORT. NOTES

Chlorobenzene

SCAN = scan number or retention time on chromatogram.

All results reported in $\frac{uq/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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RECEIVED: 02/05/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-019

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NAME EPA Method 601/GC Category TEST CODE GC 601 Date & Time Collected 02/04/86 FRACTION 04C SAMPLE 10 860121

걸 RESULT COMPOUNDS DETECTED VERIFIED BY 以 ANALYST INSTRUMENT DATE INJECTED 02/06/86 0 DATA FILE CONC. FACTOR SCAN

Dibromoch loromethane COMPOUND SCAN 月 9 RESUL 7 Chloromethane Bromomethane COMPOUND

윋 皇 Vinyl Chloride

Chloroethane

뒫 Methylene Chloride Trichlorofluoromethane

月 1, 1-Dichloroethene

月 1, 1-Dichloroethane

Chloroform

trans-1, 2-Dichloroethene 1288**

月

月 1, 2-Dichloroethane

뮏 뮏 Carbon Tetrachloride 1, 1, 1-Trichloroethane

月 **Bromodichloromethane**

月 1, 2-Dichloropropane 뮏

trans-1, 3-Dichloropropene

Trichloroethene 18688

月

2

月 cis-1, 3-Dichloropropene 1, 1, 2-Trichloroethane

열 뮏 Bromoform 2-Chloroethylvinyl Ether

月 月 1, 1, 2, 2-Tetrachloroethane Tetrach loroethy lene

9 Chlorobenzene

2 1, 3-Dichlorobenzene 9

1, 2-Dichlorobenzene

9 1, 4-Dichlorobenzene

RECEIVED: 02/05/86 PAGE 7

REPORT Analytical Serv REPU Results by Sample

LAB # 86-02-019 Continued From Above

SAMPLE 1D 860121

FRACTION 04C TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/04/86

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute All results reported in $\frac{uq/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1, 1, 2, 2-tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram

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COMPOUNDS DETECTED 0 RESULT VERIFIED BY NAME EPA Method 602/60 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene LAB # 86-02-019 Category COMPOUND FRACTION 04E TEST CODE GC 602 Date & Time Collected 02/04/86 ANALYST INSTRUMENT REPORT SCA Results by Sample DATE INJECTED 02/05/86 2 RESULT Analytical Serv Chlorobenzene Ethyl Benzene COMPOUND Benzene Toluene PAGE 8 RECEIVED: 02/05/86 SAMPLE ID 860121 DATA FILE CONC. FACTOR SCAN 284

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SCAN = scan number or retention time on chromatogram AND DEFINITIONS FOR THIS REPORT. NOTES

uq/L unless otherwise specified. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

	REPORT	TEST CODE GC 601 NAME EPA Method 601/GC ected 02/04/86	ANALYST RP VERIFIED BY MCL INSTRUMENT COMPOUNDS DETECTED O	SCAN COMPOUND RESULT	Trichloroethene	Dibromochloromethane * ND	1, 1, 2-Trichloroethane * ND	cis-1, 3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform ND	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene ND	1, 3-Dichlorobenzene ND	1, 2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND					
	Analytical Serv REP Results by Sample	FRACTION 05C TEST CODE GC 60 Date & Time Collected 02/04/86	DATE INJECTED 02/06/86	COMPOUND RESULT	Chloromethane ND :	Bromomethane ND	Vingl Chloride ND	Chloroethane ND	Methylene Chloride ND	Trichlorofluoromethane ND	1, 1-Dichloroethene ND	1,1-Dichloroethane ND ;	trans-1, 2-Dichloroethene ND	Chloroform ND	1,2-Dichloroethane ND	1, 1, 1-Trichloroethane ND	Carbon Tetrachloride ND	Bromodichloromethane ND :	1,2-Dichloropropane ND :	trans-1,3-Dichloropropene ND :	
NOTA SOLUTION A TONO N	PAGE 9 RECEIVED: 02/05/86	SAMPLE ID 860123	DATA FILE GONC. FACTOR	SCAN COM		1	1	1	1	S Trichlo		1,1	trans-1, 2		1,2	1,1,1-	Carbo	Втомо	1,2-	trans-1, 3-	

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PAGE 10 RECEIVED: 02/05/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-019 Continued From Above

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SAMPLE 1D 860123

FRACTION OSC TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/04/86

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in $\frac{4g/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1, 1, 2, 2-tetrachloroethane and tetrachloroethylene co-elute SCAN = scan number or retention time on chromatogram

286

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Secretary Secret	CORPORATION

-		D BY MCL CTED 0	RESULT	QN	QN	Q		
LAB # 86-02-019	TEST CODE GC 602 NAME EPA Method 602/GC ected 02/04/86 Category	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1.4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
REPORT Sample	ACTION OSE TEST CODE GC 602 te & Time Collected 02/04/86	ANALYST	BCAN					
l Serv REPO Results by Sample	ACTION OSE te & Time Co	red <u>02/05/86</u>	RESULT	d M	Q	Q	QN	
Analytical	FRA	DATE INJECT	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
PAGE 11 RECEIVED: 02/05/86	SAMPLE ID 860123	DATA FILE CONC. FACTOR	SCAN		2 28'	7		

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram. All results reported in $\frac{10/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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Analytical Serv

Serv REPORT NonReported Work

LAB # 86-02-019

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE DUP_NS DUP_NS DUP 602 DUP 602 DUP 602 PAGE 12
RECEIVED: 02/05/86 03F 04F 03F DUP 601 DUP 601 DUP 601

THE STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY
PRINCIA (CONTACTOR SOSTION CONSISTOR FINITES ESPECIAL (CONTACTOR)	tical Serv	Redien Anelutical Services 8501 MoPac Blvd. P. O. Box 9948 Austin, Texas 78766	PHONE (312) 434-4797	* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between 50 and 100%.	@ Indicates that spike recovery for this analysis on the specific matrix was not within acceptable limits indicating an interferent present.	Analytical Serv TEST CODES and NAMES used on this report EX 623 Extraction only - 623 BN/A M623 A Method 623 Acid Compounds M623 B Method 623 Base/Neutrals M525 B Method 625 Base/Neutrals M585 B CMS Characterization-ABN M586 B Pesticides & PCBs by GC/MS
	PAGE 1 RECEIVED: 02/06/86	REPORT Redien Corporation TO Larry French Austin, Texas ATTEN N. Robinson	CLIENT PLANT 4 SAMPLES 6 COMPANY General Dunamics FACILITY DEHL Plant 4, Bldg 4	MORK ID Air Force Plant 4 Ft. Worth TAKEN 2/4-2/5/86 TRANS Federal 321175024 TYPE H20 P. O. # 212-027-27-40		SAMPLE IDENTIFICATION O1 860120 O2 860121 O3 860123 O4 860124 O5 860125 O5 860125 O6 Reagent Blank

72
Z:

PAGE 2 RECEIVED: 02/06/86		Analytical Serv RESULTS BY TEST	REPORT Test	LAB # 86-02-030	-030	
TEST CODE	Sample 01	Sample 01 Sample 02 Sample 03 Sample 04 Sample 05 (entered units) (entered units) (entered units)	Sample 03	Sample 04 (entered units)	Sample 05 (entered units)	
EX_625 date complete	02/06/86	02/06/86	02/06/86	02/06/86	02/06/86	
TEST CODE	Sample 06					-
EX_625 date complete	02/06/86					, -

ECEIVED: 02/06/86

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REPORT Results by Sample Analytical Serv

LAB # 86-02-030

STATE OF STA

SAMPLE 1D 860120

NAME Method 625 Acid Compounds FRACTION O1A TEST CODE M625 A Date & Time Collected 02/04/86

Category

DATA FILE 2002030001 CONC. FACTOR

DATE EXTRACTED 02/06/86 DATE INJECTED 02/16/86

INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED

M

9

4-nitrophenol

2, 4-dinitrophenol

2-methyl-4, 6-dinitrophenol

60A

4

64A

₹6

63A

10A 4Z3

pentachlorophenol

REBULT

COMPOUND

EPA

NPDES SCAN

RESULT

28A

4

뒫

29A

€

31A NPDES SCAN 11A B A ⋖ 2 291

2, 4, 6-trichlorophenol 4-chloro-3-methylphenol COMPOUND EPA 21A 22A 244

뒫 9 뮏 2-chlorophenol 2, 4-dichlorophenol

S 9 2-nitrophenal 2, 4-dimethylphenol

344

40

57A

SURROGATE RECOVERIES

COMPOUND SCAN CODE

AS1

471

354

RESULT

15-phenol_

2-fluorophenol AS2

2, 4, 6—tribromophenol AS3 1105

139

AS4

d3-phenol

ug/l unless otherw''e specified. SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT. All results reported in

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RECEIVED: 02/06/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-030 Continued From Above

SAMPLE 1D 860120

FRACTION <u>01A</u> TEST CODE <u>M625 A NAME Method 625 Acid Compounds</u> Date & Time Collected <u>02/04/86</u> Category

ND 22 not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed. U = estimated value: less than method detection limit.

Minimum detection indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

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RECORD TO THE PARTY OF THE PROPERTY OF THE PRO	\$5555 ** ** ** ** ** ** ** ** ** ** ** **

NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY di-butyl phthalate N-nitrosodimethylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate di-n-octyl phthalate N-nitrosodiphenylamine butyl benzyl phthalate diethyl phthalate dimethyl phthalate benzo(a)pyrene benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene LAB # 86-02-030 Category COMPOUND 出記 TEST CODE M625 B Date & Time Collected 02/04/86 ANALYST INSTRUMENT EPA 61B **66B** 62B **63B 67B 68B 69B** 70B 71B **72B 738** 74B **75B** NPDES SCAN 1315 REPORT Results by Sample 26B 41B 43B 42B 13B 15B **29B** 24B 25B 28 **6B 7B** 98 DATE EXTRACTED 02/06/86 DATE INJECTED 02/16/86 FRACTION 01A 윋 RESULT 皇 윋 S 문 2 뮏 일 2 뮏 일 뮏 Analytical Serv acenaphthene benzidine 1, 2, 4-trichlorobenzene hexach loroethane bis(2-chloroethyl)ether 2-chloronaphthalene 1, 2-dichlorobenzene 1, 3-dichlorobenzene 1, 4-dichlorobenzene 3'dichlorobenzidine 2, 4-dinitrotoluene 2,6-dinitrotoluene hexachlorobenzene COMPOUND DATA FILE 20002030001 IC. FACTOR RECEIVED: 02/06/86 SAMPLE 1D 860120 EPA 88 **9B** 18B 20B 25B 26B 27B 28B 35B 36B 1 B 28 12B NPDES SCAN CONC. 4B 13 46B 118 16B 20B 218 22B 23B 27B 288 33B 36B 293 2

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RESULT

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chrysene

76B

18B

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1, 2-diphenylhydrazine

37B

29B

39B

318

17B

g

77B

2B

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fluoranthene

78B

38

9

40B 4-chlorophenyl phenyl ether

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acenaphthylene

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8

anthracene

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	02/06/86
PAGE 6	RECEIVED:

ytical Serv Results by Sample

REPORT

LAB # 86-02-030 Continued From Above

S)	AMPLE	SAMPLE 1D 860120		FRACTION 01A	IA	TEST COI	E M625 B	TEST CODE M625 B NAME Method 625 Base/Neutrals
				Date & Tim	e Col	ite & Time Collected 02/04/86	7/04/86	Category
	148	418	4-bromophenyl phenyl	ether	QV	88	798	benzo(ghi)perylene ND
	128	428	42B bis(2-chloroisopropyl)e	ther	Q	328	808	#luorene ND
	108	43B	bis(2-chloroethoxy)met	-uen	Q Q	448	818	phenanthrene B ND
	348	528	hexachlorobutad	iene	 9	198	828	dibenzo(a, h) anthracene ND
	358	53B	hexachlorocyclopentad	iene	일	378	838	indeno(1, 2, 3-cd)pyrene ND
2	388	34B	isopho	-uo-	 9	458	848	Durene ND
29	39B	55B	naphtha	l en e	 일			
4	40B	26B	nitroben	2 e n e	9			
~ €	* C C C C C C C C C C C C C C C C C C C	STERRING TERRITORIES						

SURROGATE RECOVERIES

RESULT	d5-nitrobenzene 47	2-fluorobiphenyl53	d14-terphenyl 31	d10-biphenyl
SCAN CODE	599 BS1	874 BS2	1472 BS3	BS4

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). * henzo(a)anthracene and chrysene co-elute in high concentrations us/1 unless otherwise specified. * = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in_

PAGE 7 RECEIVED: 02/06/86

SAMPLE 1D 860120

Analytical Serv

Serv REPORT Results by Sample

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LAB # 86-02-030 Continued From Above

Category

Minimum detection

FRACTION OIA TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected 02/04/86 Category

BL lpha detected in reagent blank, background subtraction not performed. B = anthracene and phenanthrene co-elute in high concentrations. U = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1).

limits should be multiplied by conc. factor.

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LAB # 86-02-030	TEST CODE MSNS S NAME GCMS Characterization-ABN llected 02/04/86 Category	VERIFIED BY LAK	CONF REF LEVEL CMPD	
DRT	TEST CODE MSNS S NAME lected 02/04/86	UNITS 49/1	RESULT	QN
Analytical Serv Results by Sample	FRACTION OIA TEST CODE MSNS Date & Time Collected 02/04/86	DATE ANALYZED <u>02/16/86</u>	COMPOUND	PCB
PAGE 8 RECEIVED: 02/06/86	SAMPLE 1D 860120	CHRO # 2000203001 SAMPLE SIZE 1	SCAN	

STATES - 1585-555 - 1995-555	PROCESSOR SECTIONS REPORTED BASES	7.4 B FX5.54
<u> </u>		

NAME Pesticides & PCBs by GC/MS LAB # 86-02-030 Category TEST CODE MS 608 Date & Time Collected 02/04/86 REPORT Results by Sample FRACTION 01A Analytical Serv RECEIVED: 02/06/86 SAMPLE 1D 860120

LAK 月 月 2 2 月 윋 밁 月 덜 月 2 9 RESULT VERIFIED BY COMPOUNDS DETECTED PCB-1242 alpha BHC beta BHC gamma BHC delta BHC PCB-1232 PCB-1248 PCB-1260 PCB-1254 PCB-1016 PCB-1221 toxaphene COMPOUND 扫 ANALYBT EPA 102P 103P 104P 105P 106P 107P 108P 110P 111P 109P 112P 113P NPDEB SCAN 18P **20P** 21P 8 ğ 4 S D 19P **22P** 23P 24P 256 DATE EXTRACTED 02/06/86 DATE INJECTED 02/16/86 RESULT 뮏 月 月 일 9 S 月 윋 윋 2 月 윋 月 aldrin dieldrin 4, 4'-DDE 4, 4'-DDT 4, 4'-DDD alpha endosulfan beta endosulfan endrin chlordene heptachlor epoxide endosulfan sulfate endrin aldehyde heptachlor COMPOUND 20002030001 EPA **89P** 90P 91P 92P 936 94P 95P 96P **97**P **98**P 99P 100P 101P DATA FILE CONC. FACTOR NPDES SCAN 100 11P 16P 17P 16 8 12P 14P 14P 15P 9 9

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297

PAGE 10 RECEIVED: 02/06/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-030 Continued From Above

Property and the property of the property of the property of

SAMPLE 10 860120

FRACTION O1A TEST CODE MS 608 Date & Time Collected 02/04/86

NAME Pesticides & PCBs by GC/MS Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified

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RECEIVED: 02/06/86

Results by Sample Analytical Serv

LAB # 86-02-030

SAMPLE ID 860121

FRACTION OZA TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/04/86 Category

Category

DATA FILE <u>2CU02030C02</u> CONC. FACTOR

DATE EXTRACTED 02/06/86
DATE INJECTED 02/16/86

INSTRUMENT ANAL YST

VERIFIED BY LAK

COMPOUND

NPDES SCAN RESULT

COMPOUNDS DETECTED

Q

2, 4-dinitrophenol

2-methyl-4, 6-dinitrophenol

60A

₹

2-chlorophenol

64A

4

2

2, 4-dichlorophenol

63A

471

10A

뒫

2, 4-dimethylphenol

344

46

57A

6A

2

2-nitrophenol

pentachlorophenol

phenol

윋

4-nitrophenol

REBULT

COMPOUND

EPA

58A

4

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39A

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2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 21A 22A 24A 314 EPA NPDES SCAN 11A A W W 2 299

SURROGATE RECOVERIES

COMPOUND SCAN CODE

d5-phenol AS1

469

143

RESULT

126

2-fluorophenol

142

2, 4, 6—tribromophenol AS3 1106

ASS

349

AS4

d3-phenol

ug/l unless otherw're specified SCAN = scan number or retention time on chromatogram AND DEFINITIONS FOR THIS REPORT. All results reported in NOTES

RECEIVED: 02/06/86

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-030 Continued From Above

SAMPLE 1D 860121

NAME Method 625 Acid Compounds Category

FRACTION 02A TEST CODE M625 A Date & Time Collected 02/04/86

Minimum detection indicates dilution of sample if greater than one (1). J = estimated value; less than method detection limit. CONC. FACTOR:

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

BL = detected in reagent blank; background subtraction not performed

limits should be multiplied by conc. factor.

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NATIONAL DE LA COLUMNIA DE LA COLUMN			

NAME Method 625 Base/Neutrals VERIFIED BY COMPOUNDS DETECTED N-nitrosodimethylamine di-butyl phthalate butyl benzyl phthalate N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate di-n-octyl phthalate diethyl phthalate benzo(a)pyrene dimethyl phthalate acenaphthylen benzo(a)anthracene chrysene benzo(b)fluoranthene benzo(k)fluoranthene LAB # 86-02-030 Category COMPOUND M FRACTION OZA TEST CODE M625 B Date & Time Collected 02/04/86 61B ANALYST INSTRUMENT EPA 62B **63B** 66B 67B **68B 69**B 71B **70B** 728 **73B** 74B 75B **76B** 77B NPDES SCAN REPORT 13B 1655 26B 1316 Results by Sample 41B 43B 42B 158 29B 24B 25B 38 188 **5B 6B 7B 8**6 DATE EXTRACTED 02/06/86 DATE INJECTED 02/16/86 뮏 RESULT 2 뮏 2 웆 뮏 뮏 月 윋 月 2 윋 Q 2 물 Analytical Serv acenaph thene benzidine hexachlorobenzene 1, 2, 4-trichlorobenzene hexach loroethans bis(2-chloroethyl)ether 2-chloronaphthalene 1, 3-dichlorobenzene 2, 4-dinitrotoluene 1, 2-diphenylhydrazine 1, 2-dichlorobenzene 3, 3'dichlorobenzidine 2,6-dinitrotoluene fluoranthene 1,4-dichlorobenzene COMPOUND DATA FILE 2CU02030C02 CONC. FACTOR 02/06/86 SAMPLE ID 860121 EPA 18 128 18B **20B** 25B **26B** 27B 288 35B 36B 37B 39B **SB** 88 86 NPDES SCAN RECEIVED: 18 **4B** 46B 338 36B 11B 16B 218 **22B 23B** 27B 29B 31B 20B 283 301 2

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RESULT

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anthracene

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40B 4-chlorophenyl phenyl ether

17B

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16.0	
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2 %	PAGE 14 RECEIVED: 02/06/86	02/06/		Analytical Serv Resu	lts by	Serv REPORT Results by Sample	-	LAB # 86-02-030 Continued From Above
Š	SAMPLE ID 860121	86012		FRACTION OZA Date & Time	02A Ime Co	FRACTION OZA TEST CODE M625 Date & Time Collected 02/04/86	TEST CODE M625 B ected 02/04/86	NAME Method 625 Base/Neutrals Category
	148	41B	4-bromophenyl phenyl	henyl ether	Q	88	79B	benzo(ghi)perylene ND
	128	42B	bis(2-chloroisopropyl)	ropyllether	g	32B	808	fluorene ND
	108	43B	bis(2-chloroethoxy)me	oxy)methane	9	44B	818	phenanthrene B ND
	34B	32B	hexachlorobuta	robutadiene	ᄝ	198	828	dibenzo(a,h)anthracene ND
	35B	33B	hexachlorocyclopenta	opentadiene	2	378	838	indeno(1,2,3-cd)pyrene ND
	388	34B		isophorone	2	45B	848	pyrene ND
2	39B	3.3B	-	naphthalene	g			
3	30 40B	26B	-	nitrobenzene	Q			
02	O NSURROGATE RECOVERIES	RECOVE	ERIES					
	SCA	SCAN CODE	RESULT	-				
	599	2 BS1	<u> </u>	d5-nitrobenzene	23			

NOTES AND DEFINITIONS FOR THIS REPORT.

d14-terphenyl_

883

1472

BS4

BS2

874

2-fluorobiphenyl

d10-biphenyl

NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). = henzo(a)anthracene and chrysene co-elute +> high concentrations. ug/1 unless otherwise specified. = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in__

RECEIVED: 02/06/86

Analytical Serv

Serv REPORT Results by Sample

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LAB # 86-02-030 Continued From Above

SAMPLE ID 860121

FRACTION <u>OZA</u> TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected <u>O2/04/86</u> Category

Category

Minimum detection BL = detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations. J = estimated value; less than method detection limit. limits should be multiplied by conc. factor.

PGE 13 RECEIVED: 02/06/86	Analytical Serv Results by Sample	REPORT ample	LAB # 86-02-030
SAMPLE ID 860121	FRACTION 02A Date & Time Coll	TEST CODE MSNS Sected 02/04/86	RACTION OZA TEST CODE MSNS S NAME GCMS Characterization-ABN ate & Time Collected 02/04/86 Category
CHRD # 2CU02030C2	DATE ANALYZED <u>02/16/86</u>	UNITS 44/1	VERIFIED BY LAK
SCAN	COMPOUND	RESULT	CONF REF LEVEL CMPD

PROPERTY CONTROL CONTROL OF THE CONTROL CONTROL DESPENSE DESPENSE DESPENSE DESPENSE DESPENSE DESPENSE DESPENSE

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NAME Pesticides & PCBs by GC/MS Category LAB # 86-02-030 FRACTION 02A TEST CODE MS 608 Date & Time Collected 02/04/86 Analytical Serv REPORT Results by Sample PAGE 17 RECEIVED: 02/06/86 SAMPLE 1D 860121

WUL VERIFIED BY LAK COMPOUNDS DETECTED Q	COMPOUND	alpha BHC ND	beta BHC ND	On DHC NO	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	F CB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
ANALYST _	SCAN EPA	102P	103P	104P	103P	106P	107P	108P	109P	110P	111P	112P	113P	
	NPDES S	C)	g.	46	g.	18P	199	20p	21P	22P	23P	24P	25P	
<u>02/06/86</u> 02/16/86	RESULT	QN	QN	QN	QN	QN	QN	QN	QN	Q	QΝ	Q	QN	Q
DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
DATA FILE <u>2CU02030C02</u> IC. FACTOR	SCAN EPA	896	90P	91P	92P	93P	946	95P	49 <i>b</i>	976	486	d 66	100P	101P
ODATA	NPDES S		10b	و 2	۾ 30	Ֆ 5	<u>a.</u> 6	11b		14b	14P	15P	16P	17P

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PAGE 18 RECEIVED: 02/06/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-030 Continued From Above

SAMPLE 1D 860121

FRACTION OZA TEST CODE MS 608 Date & Time Collected 02/04/86

NAME Pesticides & PCBs by GC/MS Category

> AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

RECEIVED: 02/06/86

Service Process

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-030

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SAMPLE ID 860123

FRACTION 03A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/04/86 Category

DATA FILE 2002030003

DATE EXTRACTED <u>02/06/86</u>
DATE INJECTED <u>02/16/86</u>

INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED 2

RESULT

Q

2

2

				QN	2-nitrophenol	57A		6 A
phenol	65A	10A 470	10A	QN	2,4-dimethylphenol	34A		∀ E
pentachlorophenol	64A		8	N	2,4-dichlorophenol	31A		ጸ በግ
2-methyl-4,6-dinitrophenol	60A		4 4	QN	2-chlorophenol	24A	_	3
2, 4-dinitrophenol	59A		ď.	QN	4-chloro-3-methylphenol	22A	_	& 2
4-nitrophenol	28A		¥ Z	QN	2, 4, 6-trichlorophenol	21A	_	114
COMPOUND	EPA	SCAN	NPDES SCAN	RESULT	COMPOUND	EPA	SCAN	NPDES

SURROGATE RECOVERIES

ODE COMPOUND RESULT	AS1 d5-phenol 81	AS2 2-fluorophenol 97	AS3 2, 4, 6-tribromophenol 73	AS4 d3-phenol
SCAN CODE	469 AS1	352 AS2	1104 AS3	AS4

ug/l unless otherw⁻⁻e specified SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT. All results reported in

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Analytical Serv

REPORT Results by Sample

LAB # 86-02-030 Continued From Above

NAME Method 625 Acid Compounds Category

SAMPLE 1D 860123

FRACTION 03A TEST CODE M625 A
Date & Time Collected 02/04/86

 BL^- m detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. CONC. FACTOR:

factor.

limits should be multiplied by conc.

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

Minimum detection

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LAB # 86-02-030

REPORT

Analytical Serv

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NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-butyl phthalate di-n-octyl phthalate diethyl phthalate benzo(a)pyrene dimethyl phthalate acenaphthylene benzo(a)anthracene chrysene anthracene benzo(b)fluoranthene benzo(k)fluoranthene Category COMPOUND 결 TEST CODE M625 B Date & Time Collected 02/04/86 EPA 61B **63B** 66B ANALYST INSTRUMENT 62B 67B **889** 69B 70B 71B 73B 75B **76B** 72B 74B 77B **78B** NPDES SCAN 1314 Results by Sample 26B 41B 43B 42B 15B 13B **298** 24B 25B 18B 8 38 **SB 6B** Z Z 98 DATE EXTRACTED 02/06/86
DATE INJECTED 02/16/86 RESULT 月 FRACTION 03A S 윋 얼 2 윋 윋 윋 2 윋 윋 밁 뮏 윋 밁 윋 acenaph thene benzidine 1, 2, 4-trichlorobenzene hexachlorobenzene hexachloroethane bis(2-chloroethyl)ether 408 4-chlorophenyl phenyl ether 2-chloronaphthalene 1, 2-dichlorobenzene 1, 3-dichlorobenzene 1, 4-dichlorobenzene 3, 3'dichlorobenzidine 2,6-dinitrotoluene 1,2-diphenylhydrazine 2,4-dinitrotoluene fluoranthene COMPOUND DATA FILE 2CU02030C03 RECEIVED: 02/06/86 SAMPLE 1D 860123 EPA 12B 18B 20B 25B **26B** 37B 18 38 88 98 27B 288 35B 36B 39B NPDES SCAN 1B 46B 36B 11B 16B 21B 31B 17B 4B 33B 20B 22B 23B 27B 28B 29B 309

NYIGHA

LAB # 86-02-030 Continued From Above

Results by Sample

Analytical Serv

PAGE 22 RECEIVED: 02/06/86

NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene ND	#1uorene ND	phenanthrene B ND	dibenzo(a, h) anthracene ND	indeno(1, 2, 3-cd)pyrene ND	pyrene ND					
CODE M625 B	798	808	818	82B	828	848					
TEST (llected	88	32B	44B	198	378	45B					
FRACTION O3A TEST CODATE & Time Collected	S	Q	Q	S S	S	Q	QN	QN			89
	4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether _	bis(2-chloroethoxy)methane_	hexachlorobutadiene_	hexachlorocyclopentadiene_	isophorone	naphthalene _	nitrobenzene _	RIES	RESULT	d5-nitrobenzene
860123	418	428	43B	32B	338	348	928	26B	RECOVERIES	SCAN CODE	BS1
SAMPLE ID <u>860123</u>	148	128	108	34B	358	388	86E 2	80 ₄	SURROGATE	SCAN	297

NOTES AND DEFINITIONS FOR THIS REPORT.

2-fluorobiphenyl $_{-}$

BS2

873

BS3

1471

BS4

d14-terphenyl

d 10-bipheny I

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). ⇒ henzo(a)anthracene and chrysene co-elute in high concentrations. ug/l unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram All results reported in

PROPERTY CONTROL DESCRIPTION ASSESSED

PAGE 23 RECEIVED: 02/06/86

Analytical Serv Results by Sample

REPORT

LAB # 86-02-030 Continued From Above

THE MENTAL WALLES REGIONS

SAMPLE ID 860123

FRACTION 03A TEST CODE M625 B Date & Time Collected 02/04/86

NAME Method 625 Base/Neutrals Category

Minimum detection BL = detected in reagent blank; background subtraction not performed indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations.U = estimated value: less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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LAB # 86-02-030	ACTION 03A TEST CODE MSNS S NAME GCMS Characterization-ABN ste & Time Collected 02/04/86 Category	VERIFIED BY LAK	CONF REF RESULT LEVEL CMPD	QN
Analytical Serv REPORT Results by Sample	FRACTION 03A TEST CODE Date & Time Collected 02/0	DATE ANALYZED <u>02/16/8</u> 6 UN	COMPOUND	PCB
PAGE 24 RECEIVED: 02/06/86	SAMPLE ID 860123	CHRO # 2CU02030C3	SCAN	

ACCIOCAL DESCRIPTION DECCRICAL SERVICES DESCRIPTION OF THE CONTRACT OF THE CON	C
Sign Professor Consists Sign Recessor Planting	ZOLIVIO AND COMPANY

PAGE 25 RECEIVED: 02/06/86

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-030

Programme Programme

SAMPLE ID 860123

FRACTION 03A TEST CODE MS 608 Date & Time Collected 02/04/86

NAME Pesticides & PCBs by GC/MS Category

DATA FILE <u>2CU02030C03</u> CDNC. FACTOR

DATE EXTRACTED 02/06/86 DATE INJECTED 02/16/86

ANALYST

COMPOUNDS DETECTED O

RESULT	2	S	2	S	2	S	Š	2	Š	QV.	9	QN	
	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
COMPOUND													
EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	1116	112P	1139	
NP DES SCAN	1 2P	ස 	4	<u>a</u>	18P	19P	1 20P	21P	22P	23P	24P	25P	
RESULT	QN	Q	QN	Q	QN	Ž	Z	QV	N	Q	Q	Q	Q
	aldrin	dieldrin	ch lordans	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	endosulfan	endosulfan	n sulfate	endrin	aldehyde	heptachlor	r epoxide
COMPOUND							e alpha	beta e	endosulfan		endrin	c	heptachlor
EPA	896	90P	916	92P	93P	946	956	96P	97P	986	466	100P	101P
NPDES SCAN	<i>M</i> -												
IP DES	7	10P	6 P	76	8	96	116	12P	14P	14P	15P	16P	17P
Z			2	2 3	313	}							

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PAGE 26 RECEIVED: 02/06/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-030 Continued From Above

SAMPLE 1D 860123

FRACTION 03A TEST CODE MS 608 Date & Time Collected 02/04/86

NAME Pesticides & PCBs by GC/MS Category

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number on chromatogram.

All results reported in micrograms/liter unless otherwise specified.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79).

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REPORT Results by Sample Analytical Serv

LAB # 86-02-030

SAMPLE 1D 860124

FRACTION 04A TEST CODE M625 A
Date & Time Collected 02/05/86

NAME Method 625 Acid Compounds Category

> DATA FILE 20002030004 FACTOR

DATE EXTRACTED

INSTRUMENT

COMPOUNDS DETECTED

CONC

ATE EXTRACTED 02/06/86 DATE INJECTED 02/21/86

VERIFIED BY LAK DS DETECTED 1

2

4-nitrophenol

RESULT

COMPOUND

EPA

RESULT NPDES SCAN

58A

4

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39A

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2

2-methyl-4,6-dinitrophenol

60A

4

64A

Z

2. 4-dinitrophenol

2

pentachlorophenol

21A 22A 24A 31A EPA NPDES SCAN 8 114 4 315

2, 4, 6-trichlorophenol

COMPOUND

물 S 4-chloro-3-methylphenol 2-chlorophenol

9 2 2,4-dimethylphenol 2, 4-dichlarophenol

10A

2

2-nitrophenol

63A 481

phenol

SURROGATE RECOVERIES

34A

57A

SCAN CODE

COMPOUND

d5-phenol_

RESULT

2-fluorophenol

87

2, 4, 6-tribromophenol

AS3

1114

AS4

AS2

352

AS1

479

d3-phenol

SCAN = scan number or retention time on chromatogram. AND DEFINITIONS FOR THIS REPORT. NOTES

ug/l unless otherw''e specified All results reported in

PAGE 28
RECEIVED: 02/06/86

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-030 Continued From Above

CONCERT STATEMENT OF STATEMENT CONTINUES CONTI

SAMPLE ID 860124

FRACTION 04A TEST CODE M625 A Date & Time Collected 02/05/86

NAME Method 625 Acid Compounds Category

Minimum detection ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). indicates dilution of sample if greater than one (1). BL = detected in reagent blank; background subtraction not performed value: less than method detection limit. limits should be multiplied by conc. factor. J = estimated CONC. FACTOR:

Unicososs Consumon Reservació Deservació Deservació Deservación Deservación de la propertional de la propert	COCCO DE SECUENCIA DE COCCOSTA DE CONTROL DE

PAGE 29 RECEIVED: 02/06/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-030

rals	BY LAK ED 2	RESULT	Q	S	Q	2	Q	1 81	Š	Q	Q	N	N	ON	QN .	Q	Ž	QN
NAME Method 625 Base/Neutrals Category	WUL VERIFIED BY	COMPOUND	N-nitrosodimethylamine	N-nitrosodiphenylamine	N-nitrosodi-n-propylamine _	bis(2-ethylhexyl)phthalate _	butyl benzyl phthalate _	di-butyl phthalate _	di-n-octyl phthalate _	diethyl phthalate _	dimethyl phthalate	benzo(a)anthracene A	benzo(a)pyrene	benzo(b)fluoranthene * _	benzo(k)fluoranthene + _	. A sense A	acenaphthylene ,	anthracene B _
—										m	m	m	m			m	m	m
CODE M625 d 02/05/86	ANALYST INSTRUMENT	N EPA	61B	62B	63B	899 5 7	67 B	889 <u>23</u>	869	708	718	728	738	748	758	768	77B	788
Collected O	AINST	NPDES SCAN	418	43B	42B	13B 1666	158	26B 1325	29B	248	25B	28	6B	78	98	188	28	ae
ACTION 04A te & Time Col	<u>02/06/86</u> 02/16/86	RESULT	QN	QN	QN	Q	QN	QN	QN	QN	ON	QN	QN	QN	QN	2	QV	QN
FRACTI Date &	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1,2-dichlorobenzene	1, 3-dichlorobenzene	1, 4-dichlorobenzene	3,3'dichlorobenzidine	2,4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	henyl phenyl ether
	2002030004				1,2,			b i s (2	C)	1	#	#	e 'e			1,2		4-chlorophenyl
SAMPLE ID 860124		SCAN EPA	18	38	88	86	128	188	20B	258	26B	27B	28B	35B	36B	378	398	408
SAMPLE I	DATA FILE CONC. FACTOR	NPDES SC	18	48	46B	338	368	11B	168	20B	218	22B	23B	27B	288	29B	318	178
									17)							

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GL. GZ	PAGE 30 RECEIVED:	Ö	02/06/86		Analytical Serv Result	ja s:	Serv REPORT Results by Sample	L.	LAB # 86-02-030 Continued From Above
נט	SAMPLE 1D 860124		860124		FRACTION 04A TEST CODE M625 Date & Time Collected 02/05/86	44 le Col	TEST CO	TEST CODE M625 B ected 02/05/86	NAME Method 625 Base/Neutrals Category
	14B		41B	4-bromophenyl phenyl	1 ether		88	798	benza(ghi)perylene ND
	128		42B	bis(2-chloruisopropyl)et	1) ether	 달	32R	808	#luorene ND
	108		4 3B	bis(2-chloroethoxy)meth	methane	Q	44B	818	phenanthrene B ND
	34B		\$2B	hexachlorobutadi	tadiene	 8	198	828	dibenzo(a,h)anthracene ND
	358		93B	hexachlorocyclopentadi	tadiene	 영	378	838	indeno(1, 2, 3-cd)pyrene ND
2	388		34B	180	isopharone	· 2	43B	848	ON sustant
31	39B		55B	hqen	naphthalene	 2			
18	40B		26B	nitrobenz	benzene	Ω Ω			
U)	SURROGATE		RECOVERIES	RIES					
	ຫ	SCAN	SCAN CODE	RESULT					

RESULT	d5-nitrobenzene	2-fluorobiphenyl	d14-terphenyl	d10-biphenyl
SCAN CODE	608 BS1	883 BS2	1482 BS3	BS4

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). A st henzo(a)anthracene and chrysene co-elute $^{\circ}$ high concentrations. uq/l unless otherwise specified. \star * benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in_

PAGE 31 RECEIVED: 02/06/86

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-030 Continued From Above

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SAMPLE 10 860124

FRACTION 04A TEST CODE M625 B Date & Time Collected 02/05/86

NAME Method 625 Base/Neutrals Category

Minimum detection = detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations.J = estimated value; less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

2 319

LAB # 86-02-030	TEST CODE MSNS S NAME GCMS Characterization-ABN lected 02/05/86 Category	VERIFIED BY LAK	CONF REF LEVEL CMPD	
Analytical Serv Results by Sample	FRACTION 04A TEST CODE MSNS S NAME Date & Time Collected 02/05/86	NALYZED 02/16/86 UNITS 49/1	RESULT	QN
Anal		DATE ANALY	COMPOUND	PCB
PAGE 32 RECEIVED: 02/06/86	SAMPLE 1D 860124	CHRO # <u>2EU02030C4</u> SAMPLE SIZE 1	SCAN	

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REPORT Results by Sample Analytical Serv

LAB # 86-02-030

SAMPLE 1D 860124

FRACTION 04A TEST CODE MS 608 Date & Time Collected 02/05/86

NAME Pesticides & PCBs by GC/MS Category

VERIFIED BY LAK COMPOUNDS DETECTED alpha BHC gamma BHC delta BHC PCB-1242 beta BHC PCB-1254 PCB-1221 COMPOUND MJL **ANALYST** EPA 102P 103P 104P 105P 106P 107P 108P NPDES SCAN ğ 189 19P **20P** 9 g 4 DATE EXTRACTED 02/06/86 DATE INJECTED 02/16/86 月 RESULT 2 문 Q 뮏 2 S aldrin dieldrin 4, 4'-DDE 4, 4'-DDD alpha endosulfan chlordane 4, 4'-DDT COMPOUND DATA FILE 20002030004 EPA **89P** 90P 91P 92P 94P 95P 936 CONC. FACTOR NPDES SCAN 11P 10P 321 2

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RESULT

2

2

2

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PCB-1232

109P

21P

2

beta endosulfan

96P

12P

97P

14P

98P

14P

466

156

100P

16P

101P

17P

2

PCB-1248

2

PCB-1016

일

PCB-1260

111P

23P

윋

endrin

110P

22P

2

endosulfan sulfate

112P

24P

2

endrin aldehyde

113P

25P

윋

heptachlor

윋

heptachlor epoxide

밁

toxaphene

PAGE 34 RECEIVED: 02/06/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-030 Continued From Above

SAMPLE ID 860124

FRACTION 04A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/05/86

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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RECEIVED: 02/06/86 PAGE 35

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-030

CONTRACT.

53555558

SAMPLE 1D 860125

FRACTION 05A TEST CODE M625 A Date & Time Collected 02/05/86

NAME Method 625 Acid Compounds Category

DATA FILE <u>2CU02077505</u> CONC. FACTOR

DATE EXTRACTED 02/06/86
DATE INJECTED 02/16/86

INSTRUMENT **ANALYBT**

RESULT 2

58A NPDES SCAN 4

8

4-nitrophenol

RESULT

COMPOUND

2

2-methyl-4, 6-dinitrophenol

2

2, 4-dinitrophenol

9

pentachlorophenol

9

phenol

VERIFIED BY LAK DS DETECTED O COMPOUNDS DETECTED

> COMPOUND EPA 21A NPDES SCAN 11A

2, 4, 6-trichlorophenol 4-chloro-3-methylphenol

22A

8

24A

14

323

31A

Ø

34A

A A

57A

6A

44 ₹ C

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2-chlorophenol

60A

39A

4

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2, 4-dichlorophenol

644

65A

10A

2

2, 4-dimethylphenol

2

2-nitrophenol

SURROGATE RECOVERIES

COMPOUND SCAN CODE

AS1

480

99

d5-phenol

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RESULT

2-fluorophenol

2, 4, 6-tribromophenol

ASB

1112

AS4

AS2

364

d3-phenol

AND DEFINITIONS FOR THIS REPORT. NOTES

ug/l unless otherw^{..}e specified SCAN = scan number or retention time on chromatogram All results reported in

RECEIVED: 02/06/86

Analytical Serv

REPORT Results by Sample

TO RECEIVE AND PROPERTY IN THE PROPERTY OF THE

LAB # 86-02-030 Continued From Above

Category

NAME Method 625 Acid Compounds FRACTION 05A TEST CODE M625 A Date & Time Collected 02/05/86 SAMPLE 1D 860125

Minimum detection ND $^{\rm m}$ not detected at EPA detection limit method 6.25, (Federal Register, 11/26/84). BL $^{\rm m}$ detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. CONC. FACTOR:

limits should be multiplied by conc. factor.

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COLFERNIOR		

A 윋 月 밀 열 윋 윋 2 일 RESULT 2 月 윋 윋 밁 윋 윋 윋 NAME Method 625 Base/Neutrals VERIFIED BY COMPOUNDS DETECTED N-nitrosodimethylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate Þ N-nitrosodiphenylamine di-butyl phthalate di-n-octyl phthalate diethyl phthalate dimethyl phthalate benzo(a)pyrene acenaphthylene benzo(a)anthracene benzo(b)fluoranthene chrysene anthracene benzo(k)fluoranthene LAB # 86-02-030 Category COMPOUND £2 TEST CODE M625 B Date & Time Collected 02/05/86 ANALYST INSTRUMENT EPA 61B 66B 62B 63B **67B 68B** 69B **70B** 71B 72B 73B 74B 75B **76B 77B 78B** NPDES SCAN REPORT Results by Sample **41B** 43B 42B 13B 15B **26B 29B** 24B 25B **6**B 188 2B 38 **S**B **7B** 98 DATE EXTRACTED <u>02/06/86</u> DATE INJECTED <u>02/16/86</u> RESULT 2 윋 FRACTION 05A 윋 욷 皇 S 윋 외 윋 2 윋 일 윋 윋 밁 윋 Analytical Serv acenaphthene benzidine 1, 2, 4-trichlorobenzene hexachloroethane 2-chloronaphthalene 1,2-dichlorobenzene 1, 3-dichlorobenzene 1,4-dichlorobenzene 2, 4-dinitrotoluene 2,6-dinitrotoluene 1,2-diphenylhydrazine 40B 4-chlorophenyl phenyl ether hexachlorobenzene bis(2-chloroethyl)ether 3, 3'dichlorobenzidine fluoranthene COMPOUND DATA FILE 20022030005 CONC. FACTOR 02/06/86 SAMPLE 1D 860125 EPA **1**B 88 183 20B 25B 26B 27B 35B 37B 39B **SB** 12B 288 36B 98 NPDES SCAN RECEIVED: PAGE 37 18 46B 11B 16B 218 27B 318 **4B** 33B 36B 20B 22B **23B** 288 29B 17B 325

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CONTRACT TO SOURCE AND SOURCE

	als	Q	Q	Q	Q	QN	Q		
LAB # 86-02-030 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene	fluorene	phenanthrene B	dibenzo(a, h) anthracene	indeno(1, 2, 3-cd)pyrene	purene		
REPORT nple	ACTION OSA TEST CODE M625 B te & Time Collected 02/05/86	79B	808	818	828	838	848		
REF Samp 1	TEST lected	88	328	448	198	378	45B		
Serv REP Results by Sample	ACTION 05A te & Time Col	QN	Q	QN	QN	QN	Q	Q	Q
Analytical	FRACTION Date &	4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether .	bis(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene .	isophorone	naphthalene	nitrobenzene .
02/06/86	860125	41B 4	42B bi	43B b	928	238	24B	55B	26B
PAGE 38 RECEIVED:	SAMPLE ID 860125	148	128	108	348	8cc 2	88E 32	368 368	40B

SURROGATE RECOVERIES

RESULT	d5-nitrobenzene 53	2-fluorobiphenyl 41	d14-terphenyl3Z	d10-biphenyl
CODE	BS1	BSS	BS3	BS4
SCAN CODE	709	880	1480	

NOTES AND DEFINITIONS FOR THIS REPORT.

NO ≈ not detected at EPA detection limit method 625, (Federal Register, 10/26/84). * henzo(a)anthracene and chrysene co-elute ' high concentrations. ug/1 unless otherwise specified. * n benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN ≈ scan number or retention time on chromatogram. All results reported in___

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REPORT Results by Sample Analytical Serv

LAB # 86-02-030 Continued From Above

SAMPLE 10 860125

FRACTION 05A TEST CODE M625 B
Date & Time Collected 02/05/86

NAME Method 625 Base/Neutrals Category

Minimum detection BL = detected in reagent blank; background subtraction not performed indicates dilution of sample if greater than one (1). and phenanthrene co-elute in high concentrations. J = estimated value: less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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LAB # 86-02-030	GCMS Characterization-ABN Category	VERIFIED BY LAK	CONF REF LEVEL CMPD	
i Serv REPORT Results by Sample	FRACTION O5A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/05/86	DATE ANALYZED 02/16/86 UNITS 44/1	RESULT	QN
PAGE 40 RECEIVED: 02/06/86	SAMPLE ID 860125	CHRD # <u>2CU02030C5</u> SAMPLE SIZE <u>1</u> DATE ANAL	SCAN COMPOUND	PCB
PAGE 40 RECEIVED	SAMPLE	SAMPLE		

PAGE 41 RECEIVED: 02/06/86

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-030

SAMPLE ID 860125

FRACTION 05A TEST CODE MS 608 Date & Time Collected 02/05/86

NAME Pesticides & PCBs by GC/MS

Category

VERIFIED BY LAK COMPOUNDS DETECTED 0	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene	
ANALYST	SCAN EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
	NPDES S	g	æ	4	in G	18P	199	20P	21P	22P	23P	24P	25P	
<u>02/06/86</u> 02/16/86	RESULT	QN	Q	QN	Q	Q	Q	Q	QN	Q	Q	QN	QN	QN
DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
DATA FILE <u>2CU02030CO5</u> IC. FACTOR	SCAN EPA	899	90P	916	92P	93P	94P	95P	96P	97P	486	999	100P	101P
DATA CONC. F	NPDES S	<u>0</u> .	g ₀₁	3	բ 29	6 8	d	11 11	12P	14P	14P	15P	16P	17P

PAGE 42 RECEIVED: 02/06/86

REPORT Analytical Serv REPO Results by Sample

LAB # 86-02-030 Continued From Above

FRACTION 05A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/05/86

SAMPLE 1D 860125

NOTES AND DEFINITIONS FOR THIS REPORT.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results rroorted in micrograms/liter unless otherwise specified. SCAN = scan number on chromatogram.

330

PAGE 43 RECEIVED: 02/06/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-030

SAMPLE ID Reagent Blank

FRACTION <u>OGA</u> TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected <u>not specified</u> Category

Category

DATA FILE <u>2EU02024C07</u> FACTOR CONC

DATE EXTRACTED <u>02/06/86</u>
DATE INJECTED <u>02/21/86</u>

INSTRUMENT **ANALYST**

VERIFIED BY COMPOUNDS DETECTED

> EPA 21A 22A 24A NPDES SCAN 11A **₹** ₹ 331

2, 4, 6-trichlorophenol

月 뮏 4-chloro-3-methylphenol 2-chlorophenol

2, 4-dichlorophenol

31A

4

344

46

57A

49

2, 4-dimethylphenol

104 2 2

65A

윋

phenol

뒫

2, 4-dinitrophenol

RESULT

COMPOUND

EPA

NPDES SCAN

RESULT

COMPOUND

58A

7

9

39A

₹

4-nitrophenol

밀

2-methyl-4, 6-dinitrophenol

60A

4

64A

4

月

2

pentachlorophenol

SURROGATE RECOVERIES

SCAN CODE

2-nitrophenol

COMPOUND

RESULT

d5-phenol

145

2-fluorophenol

AS2

370

AS1

487

ASB

1120

9

2, 4, 6-tribromophenol

AS4

d3-phenol

SCAN = scan number or retention time on chromatogram. AND DEFINITIONS FOR THIS REPORT.

NOTES

All results reported in

ug/l unless otherw^{. -}e specified

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RECEIVED: 02/06/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-030 Continued From Above

3553 833455

SAMPLE ID Reagent Blank

FRACTION O6A TEST CODE M625 A NAME Method 625 Acid Compounds

Date & Time Collected not specified

Category

ND $^{
m H}$ not detected at EPA detection limit method 625, (Federal Register, 11/26/84). $\mathrm{BL}_{-}=$ detected in reagent blank; background subtraction not performed. J = estimated value: less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

Minimum detection

1000 - 10	SSSS THEORY OF THE SECOND TO SECOND	53 - 557.5759 - 665.50504 ESS
MANAGE STATES		

02/06/86 RECEIVED:

REPORT Results by Sample Analytical Serv

LAB # 86-02-030

NAME Method 625 Base/Neutrals Category Date & Time Collected not specified M625 B TEST CODE FRACTION 06A SAMPLE ID Reagent Blank

LAK S 밁 S N S Š 윋 2 g S S S 윋 2 RESULT COMPOUNDS DETECTED VERIFIED BY butyl benzyl phthalate dimethyl phthalate benzo(a)pyrene ∢ N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate di-butyl phthalate di-n-octyl phthalate diethyl phthalate acenaphthylene benzo(a)anthracene chrysene anthracene benzo(b)fluoranthene benzo(k)fluoranthene COMPOUND MJL EPA 61B 62B 63B **66B 67B 68B 69B 70B** 71B 72B **13B** 74B 75B 76B 77B **78B** ANALYST INSTRUMENT 1329 NPDES SCAN 26B 18B 2B 38 41B 43B 42B 13B 15B 29B 24B 25B **6B SB 7B 9B** DATE EXTRACTED 02/06/86.

DATE INJECTED 02/21/86 2 2 2 S 2 2 2 밁 2 Q 9 2 S 2 2 욷 RESULT acenaph thene benzidine 2, 4-trichlorobenzene hexachlorobenzene 2-chloronaphthalene 1, 2-dichlorobenzene 1, 3-dichlorobenzene 3, 3'dichlorobenzidine 2, 4-dinitrotoluene 1,2-diphenylhydrazine fluoranthene 40B 4-chlorophenyl phenyl ether hexachloroethane bis(2-chloroethyl)ether 1, 4-dichlorobenzen 2,6-dinitrotoluen COMPOUND 2EU02024C07 26B 37B EPA 18B 20B 27B 28B 35B 36B 39B 12B 25B 18 **2**B 88 9B DATA FILE S NPDES SCAN CONC 27B 28B 29B 31B 17B **1**B **4**B 11B 16B 20B 21B 22B 23B 46B 338 36B 2 333

COOLANDOOLOGIA COLOGIA CONTINUE POLICIONA COLOGIA SESSESSE COLOGIA DE

Analytical Serv REPORT Results by Sample	FRACTION O6A TEST CODE M625 B NA Date & Time Collected not specified
02/06/86	SAMPLE ID Reagent Blank
PAGE 46 RECEIVED: 02/06/86	SAMPLE ID

LAB # 86-02-030 Continued From Above

Is	N	S	Ω	S	S	9			
TEST CODE M625 B NAME Method 625 Base/Neutrals ected not specified Category	benzo(ghi)perylene	fluorene	phenanthrene B	dibenzo(a, h)anthracene	indeno(1, 2, 3-cd)pyrene	purene			
ODE M625 B Not specified	79B	808	818	82B	838	84B			
TEST CODE ected not	88	32B	44B	198	37B	45B			
FRACTION OGA TEST (Date & Time Collected	Ω̈́	Q	QN	QN	QN	QN	QN	ON O	
FRACTIO Date &	4-bromophenyl phenyl ether _	bis(2-chloroisopropyl)ether _	bis(2-chloroethoxy)methane _	hexachlorobutadiene	hexachlorocyclopentadiene _	isophorone	naphthalene_	nitrobenzene _	
t Blank	4-bromoph	bis(2-chlo	bis(2-chl	£	hexachlor				RIES
SAMPLE ID Reagent Blank	418	42B I	43B	528	23B	24B	558	26B	SURROGATE RECOVERIES
SAMPLE I	148	12B	108	348	358	388	398	40B	SURRDGATI
G)					• . •	2	3	34	O) Taitait

	94	87	62	
RESULT	d5-nitrobenzene	2-fluorobiphenyl_	d14-terphenyl	d10-biphenyl_
SCAN CODE	614 BS1	888 BS2	1487 BS3	BS4

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). = henzo(a)anthracene and chrysene co-elute in high concentrations uq/l unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in_

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RECEIVED: 02/06/86

REPORT Analytical Serv Results by Sample

LAB # 86-02-030 Continued From Above

SAMPLE ID Reagent Blank

FRACTION OGA TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category

Category

BL = detected in reagent blank; background subtraction not performed. B = anthracene and phenanthrene co-elute in high concentrations.

Minimum detection indicates dilution of sample if greater than one (1). J = estimated value; less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

335

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FRACTION OGA TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected not specified Category VERIFIED BY LAK LAB # 86-02-030 CONF LEVEL RESULT UNITS UG/1 Analytical Serv REPORT Results by Sample DATE ANALYZED 02/21/86 COMPOUND PCB CHRO # 2CB02024C7 SAMPLE SIZE 1 SAMPLE ID Reagent Blank SCAN PAGE 48 RECEIVED: 02/06/86

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RECEIVED: 02/06/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-030

SAMPLE ID Reagent Blank

FRACTION 06A

TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified

Category

A O

VERIFIED BY

COMPOUNDS DETECTED 결 ANALYST DATE EXTRACTED 02/06/86
DATE INJECTED 02/21/86 2CB02024C07 DATA FILE CONC. FACTOR

2 2 뮏 2 일 RESULT alpha BHC PCB-1242 delta BHC beta BHC GAMMA BHC COMPOUND EPA 102P 103P 104P 105P 106P NPDES SCAN 9 18P 2 4 g RESULT 열 2 月 윋 윋 .ldrin dieldrin 4, 4'-DDE chlordane 4, 4'-DDT COMPOUND EPA 899 90P 91P 92P 93P NPDES SCAN 100 337

23P **24P 22P** 25P 뮏 2 2 2 endrin endosulfan sulfate endrin aldehyde heptachlor

PCB-1260 PCB-1016

111P

112P

113P

윋

heptachlor epoxide

밁

일

PCB-1254

107P

19P

윋

4, 4'-DDD

94P

95P

11P

96P

12P

97P

14P

98P

14P

99P

156

100P

16P

101P

17P

108P

20P

윋

alpha endosulfan

109P

21P

2

beta endosulfan

110P

2

PCB-1221

月

PCB-1232

2

PCB-1248

윋 밁 toxaphene

PAGE 50 RECEIVED: 02/06/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-030 Continued From Above

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SAMPLE ID Reagent Blank

FRACTION O6A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

All results reported in micrograms/liter unless otherwise specified.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79).

MARKET PRODUCTION PROPERTY CONTRACTOR PROPERTY.

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FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

DUP_NS

04B 05B

Analytical Serv REPORT NonReported Work

LAB # 86-02-030

CHANGE CHANGE STREET

339

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PAGE 1 RECEIVED: 02/06/86

02/27/86 17:46:55 Analytical Serv

LAB # 86-02-031

REPORT Redien Austin 무

ATTEN Larry French

PREPARED Radian Analutical Services Austin, Texas 78766 8501 MoPac Blyd. P. O. Box 9948 B∀ ATTEN

CERTIFIED BY

(512) 454-4797 PHONE

CONTACT CONOVER

Second column confirmation for EPA 601 on -04, for EPA 602 **Unknown compound eluting here. on -04 and -05.

Carswell AFB (Gen. Dunamics)

Plant 4

PLANT4

CLIENT COMPANY FACILITY

BAMPLES

Footnotes and Comments

* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between

50 and 100%

under separate cover

INVOICE

212-027-27-40

groundwater

MORK ID

Fed Ex

TRANS

TYPE

TAKEN

specific matrix was not within acceptable limits indicating @ Indicates that spike recovery for this analysis on the an interferent present.

SAMPLE IDENTIFICATION

860122 **B60124**

B60125 **B6012B B60127**

field blank trip blank 860129

Analytical Serv TEST CODES and NAMES used on this report Digestion by Method 3020 Digestion by Method 6010 and Grease, Infrared Hydrocarbons in soi Mercuru, Cold Vapor Selenium, low level Arsenic, low level EPA Method 602/GC Method 601/GC Chromium, ICPES ead, low level Cadmium, ICPES Barium, ICPES Silver, ICPES 023020 066010 GC 601 GC 602 DNG IR PB GA SE GA HG CA AS GA H IR BA E 3 CD CRE

Xulenes

340

031	Sample 05			w w an a					\tag{7}	mg/L		-	
LAB # 86-02-031	Sample 04								56	mg/L			
REPORT Test	Sample <u>03</u> (entered units)	0.007*	<. 005	0.072	<. 002	<. 005	02/12/86	02/11/86	₽	4. 0002	D	<. 002	<. 003
Serv RESULTS BY	Sample <u>02</u> (entered units)	0.007*	<. 005	0.076	<. 002	0.007*	02/12/86	02/11/86	D	4. 0002	₽	0.032	₹. 003 €
Amalytical	Sample 01										₽		
PAGE 2 Received: 02/06/86	TEST CODE	AG_E	AS GA	ш. Д.		1 4 (%)	D6302	-	FI HC_IR	HG CA	ONGIR		SE GA

COSCOSO TELEFORM

			· · ·
	LAB # 86-02-031		
(Serv REPORT RESULTS BY TEST		
	Analytical	Sample 06 (entered units)	₽
THE YEAR	PAGE 3 RECEIVED: 02/06/86	TEST CODE : Sample 06	ONG IR

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<u>د .</u>		CORPORATION		У. М.		
A H	PAGE 4 RECEIVED: 02/06/86	Analytica		Serv REP Results by Sample	REPORT Sample	LAB # 86-02-031
&	SAMPLE ID 860124		FRACTIC Date &	N OZC Time Col	FRACTION O2C TEST CODE GC 601 Date & Time Collected 02/05/86	NAME EPA Method 601/GC Category
8	DATA FILE	G DATE INJECTED 02/06/86	ЕСТЕВ С	78/90/20	ANALYST INSTRUMENT	RP VERIFIED BY MCL COMPOUNDS DETECTED Q
	SCAN	COMPOUND	Œ.	RESULT	SCAN	COMPOUND
mar som e s		Chloromethane	thane	QN		Trichloroethene ND
No company com		Bromometh	thane	Q		Dibromochloromethane * ND
		Vinyl Chlor	oride .	9		1, 1, 2-Trichloroethane * ND
		Chloroeth	thane	QN	7	cis-1, 3-Dichloropropene * ND
2		Methylene Chloride	oride	Q	1	2-Chloroethylvinyl Ether ND
34		Trichlorofluoromethane	thane	QN		Bromoform ND
3		1, 1-Dichloroethene	thene	QN	1,1,	1,1,2,2-Tetrachloroethane # ND
s une sinc		1, 1-Dichloroethane	thane	QN		Tetrachloroethylene # ND
		trans-1,2-Dichloroeth	thene	QN		Chlorobenzene ND
.3.3	-	Chloroform	oform	Q		1,3-Dichlorobenzene ND
No. 18		1,2-Dichloroeth	thane	QN		1, 2-Dichlorobenzene ND
V.N. 3		1, 1, 1-Trichloroeth	thane	Q.		1, 4-Dichlorobenzene ND
		Carbon Tetrachloride	oride	Q		
in the		Bromodichloromethane	thane	Q		
		1, 2-Dichloropropane	opane .	Q N		
. . .	t1	trans—1,3—Dichloropropene	opene	QN		
))		

PAGE 5 RECEIVED: 02/06/86

REPORT Analytical Serv Results by Sample

LAB # 86-02-031 Continued From Above

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SAMPLE 1D 860124

FRACTION 02C TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/05/86

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute All results reported in $\frac{uq/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1, 1, 2, 2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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55575. • 12375.	

PAGE 6 RECEIVED: 02/06/86	Analyti	itical Serv Results by Sample	REPORT Sample	LAB # 86-02-031
SAMPLE ID 860124		FRACTION OZE Date & Time Col	FRACTION OZE TEST CODE GC 602 Date & Time Collected 02/05/86	NAME EPA Method 602/GC Category
DATA FILE CONC. FACTOR	D DATE	DATE INJECTED <u>02/06/86</u>	ANALYST	MCL VERIFIED BY MCL d COMPOUNDS DETECTED 0
SCAN	COMPOUND	RESULT	BCAN	COMPOUND
	Benzene	- GN		1,4-Dichlorobenzene ND
2 345	Toluene	d		1,3-Dichlorobenzene ND
	Ethyl Benzens	- CON		1,2-Dichlorobenzene ND
	Chlorobenzene	ue PD		

NOTES AND DEFINITIONS FOR THIS REPORT.

ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in _____uq/L_unless otherwise spe

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

RESULT COMPOUNDS DETECTED VERIFIED BY Trichloroethene Bromoform 2-Chloroethylvinyl Ether Chlorobenzene 1, 3-Dichlorobenzene 1, 4-Dichlorobenzene 1, 2-Dichlorobenzene NAME EPA Method 601/GC Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene 1, 1, 2, 2-Tetrachloroethane Tetrach loroethy lene LAB # 86-02-031 Category COMPOUND RP TEST CODE GC 601 Date & Time Collected 02/05/86 ANALYST INSTRUMENT SCAN REPORT Results by Sample DATE INJECTED <u>02/06/86</u> 9 뮏 Ş 오 2 밁 2 밁 2 윋 윋 뮏 2 2 2 묏 FRACTION 03C RESULT Analytical Serv Chloroform **Bromodichloromethane** trans-1, 3-Dichloropropene Vinyl Chloride Methylene Chloride 1, 1-Dichloroethene trans-1, 2-Dichloroethene 1, 1, 1-Trichloroethane Carbon Tetrachloride Ch loromethane Bromomethane Trichlorofluoromethane 1, 2-Dichloroethane 1,2-Dichloropropane Chloroethane 1, 1-Dichloroethane COMPOUND RECEIVED: 02/06/86 SAMPLE 1D 860125 DATA FILE CONC. FACTOR SCAN 346 2

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PAGE 8 RECEIVED: 02/06/86

Results by Sample Analytical Serv

LAB # 86-02-031 Continued From Above

SAMPLE 1D 860125

FRACTION 03C TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/05/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute All results reported in $\frac{uq/l}{l}$ unless otherwise specified. ND $^{\circ}$ not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram

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LAB # 86-02-031

REPORT

Analytical Sery

E E 9 月 2 RESULT COMPOUNDS DETECTED VERIFIED BY FRACTION 03E TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 02/05/86 1, 4-Dichlorobenzene 1, 2-Dichlorobenzene 1, 3-Dichlorobenzene Category COMPOUND 뮙 ANALYST INSTRUMENT SCAN Results by Sample DATE INJECTED 02/06/86 윋 2 2 2 RESULT Ethyl Benzene Chlorobenzene COMPOUND Benzene Toluene PAGE 9 RECEIVED: 02/06/86 SAMPLE 1D 860125 DATA FILE CONC. FACTOR SCAN 348

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram.

ug/L unless otherwise specified. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-031

믮 TEST CODE GC 601 Date & Time Collected 02/05/86 ANALYST DATE INJECTED 02/06/86 FRACTION 04B 0 SAPPLE 10 860127

고 S RESULT VERIFIED BY COMPOUNDS DETECTED INSTRUMENT DATA FILE FACTOR CONC

Dibromoch loromethane cis-1, 3-Dichloropropene COMPOUND SCAN 0.33 2 g 月 RESULT Chloromethane Vinyl Chloride Bromomethane COMPOUND SCAN

Ch loroethane

0.32 Methylene Chloride

2. 45 Trichlorofluoromethane

1, 1-Dichloroethene

月 1. 1-Dichloroethane

7, 37** trans-1, 2-Dichloroethene 2 Chloroform

月 1, 2-Dich loroethane

2 1, 1, 1-Trichloroethane

Carbon Tetrachloride

2 **Bromodich**loromethane

2

2 1, 2-Dichloropropane Q

trans-1, 3-Dichloropropene

NAME EPA Method 601/GC

Category

0.96 Trichloroethene

2

2

윋

1, 1, 2-Trichlorosthane

2 2-Chloroethylvinyl Ether 9

Bromoform

뒫 1, 1, 2, 2-Tetrachloroethane

뮏 Tetrachloroethylene

9 2 Chlorobenzene 1, 3-Dichlorobenzene

2 1,2-Dichlorobenzene 2 1, 4-Dichlorobenzene

349

2

PAGE 11 RECEIVED: 02/06/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-031 Continued From Above

SAMPLE ID 860127

FRACTION 04B TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/05/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in__

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2 叧 윋 RESULT COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 602/GC 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene LAB # 86-02-031 Category COMPOUND FRACTION 04D TEST CODE GC 602 Date & Time Collected 02/05/86 INSTRUMENT ANALYST REPORT SCAN Results by Sample DATE INJECTED 02/06/86 8442 2 RESULT Analytical Serv Ethyl Benzene Chlorobenzene COMPOUND Benzene Toluene RECEIVED: 02/06/86 SAMPLE 1D 860127 DATA FILE CONC. FACTOR SCAN 351

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

<u>uq/L</u> unless otherwise specified. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

	LAB # 80-04-031	GC 601 NAME EPA Method 601/GC 05/86 Category	ANALYST RP VERIFIED BY MCL TRUMENT 0 COMPOUNDS DETECTED 1	COMPOUND RESULT	Trichloroethene ND	Dibromochloromethane * ND	1, 1, 2-Trichloroethane * ND	cis-1,3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform ND	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene	1, 3-Dichlorobenzene ND	1, 2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND					
700010	REFUKI Sample	TEST CODE GC 601 lected 02/05/86	ANALYST INSTRUMENT	SCAN																	
	Analytical Serv Results by Sample	FRACTION OSB TEST CODE GC 60 Date & Time Collected 02/05/86	G DATE INJECTED 02/06/86	COMPOUND	Chloromethane ND	Bromomethane ND	Vingl Chloride ND	Chloroethane ND	Methylene Chloride ND	Trichlorofluoromethane ND	1,1-Dichloroethene ND	1, 1-Dichloroethane ND	trans-1,2-Dichloroethene ND :	Chloroform ND	1, 2-Dichloroethane ND i	1, 1, 1-Trichloroethane ND	Carbon Tetrachloride ND	Bromodichloromethane ND :	1,2-Dichloropropane 1.70	trans-1,3-Dichloropropene ND	
	PRGE 13 RECEIVED: 02/06/86	SAMPLE ID 860128	DATA FILE CONC. FACTOR	SCAN					2		 52		trar						1	trans	

BEST STEERING CONTROL

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RECEIVED: 02/06/86

Results by Sample Analytical Serv

REPORT

SOUND SOUNDS

LAB # 86-02-031 Continued From Above

SAMPLE ID 860128

FRACTION OSB TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/05/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in__

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SECOND PROPERTY OF THE PROPERT

		D BY MCL CTED Q	RESULT	QN	QN	Q		
LAB # 86-02-031	NAME EPA Method 602/GC Category	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
REPORT Sample	FRACTION OSD TEST CODE GC 602 Date & Time Collected 02/05/86	ANALYST	SCAN					
Serv Results by	TION OSD & Time Col	9 <u>8/96/8</u> 6	RESULT	QN	- GN	Q	Q	
Analytical Serv Results by Sample	FRAC	DATE INJECTED <u>02/06/86</u>	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
PAGE 15 RECEIVED: 02/06/86	SAMPLE ID 860128	CONC. FACTOR	SCAN	2	354			

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

All results reported in $\frac{ug/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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RECEIVED: 02/06/86 PAGE 16

Analytical Serv REPORT Results by Sample

LAB # 86-02-031

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SAMPLE 1D 860129

FRACTION 06D TEST CODE XYLENE NAME XUIENES Date & Time Collected 02/05/86

Category

DATA FILE CONC. FACTOR

DATE INJECTED 02/06/86

ANALYST INSTRUMENT

VERIFIED BY MCL COMPOUNDS DETECTED __Q

SCAN

COMPOUND

RESULT

p-xylene

Q

m-xylene

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o-xylere

355 2

AND DEFINITION'S FOR THIS REPORT. NOTES

<u>uq/L</u> unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in

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NAME EPA Method 601/	
NAME EF	7
EST CODE GC 601	Part Are brand
FRACTION O7A TEST CODE GC 601 NA	TITE O TITE OF THE
SAMPLE ID field blank	

PAGE 18

RECEIVED: 02/06/86

Results by Sample Analytical Serv

LAB # 86-02-031 Continued From Above

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CALLECCO TREE STATE

SAMPLE ID field blank

FRACTION O7A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in_

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S 月 RESULT 月 VERIFIED BY COMPOUNDS DETECTED FRACTION O7B TEST CODE GC 602 NAME EPA Method 602/GC 1, 4-Dichlorobenzene 1. 3-Dichlorobenzene 1, 2-Dichlorobenzene LAB # 86-02-031 Category COMPOUND Date & Time Collected not specified INSTRUMENT ANALYST REPORT SCAN Results by Sample DATE INJECTED 02/06/86 2 RESULT Analytical Serv Ethyl Benzene Chlorobenzene COMPOUND Benzene Tolvene SAMPLE ID field blank RECEIVED: 02/06/86 DATA FILE CONC. FACTOR SCAN 358 2

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) uq/L unless otherwise specified. All results reported in

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Serv REPORT il Serv

LAB # 86-02-031

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Analytical	ı	•	
	02/06/86		
₹ 8	CEIVED:		

FRACTION OBA TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected not specified Category SAMPLE ID trip blank

BY MCL ED 1	RESULT	QN	DN	Q	ON	ON	QN	QN
VERIFIED BY MCL.	COMPOUND	Trichlorosthens	Dibromochloromethane *	1, 1, 2-Trichloroethane *	cis-1, 3-Dichloropropene *	2-Chloroethylvinyl Ether	Bromoform	1,1,2,2-Tetrachloroethane #
ANALYSTINSTRUMENT	SCAN							1.
98/90/20	RESULT	QN	Q	2	2	QN	2. 25	CN
DATE INJECTED <u>02/06/86</u>	COMPOUND	Chloromethane	Brosomethane	Vingl Chloride	Chloroethane	Methylene Chloride	Trichlorofluoromethane	1,1-Dichloroethene
ILE G		I	1	ı	1	Σ	1 Trich	
DATA FILE CONC. FACTOR	SCAN					2	35	 9

cis-1,3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform ND	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene ND	1, 3-Dichlorobenzene ND	1, 2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND

윋

trans-1, 2-Dichloroethene

1,1-Dichloroethane

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Chloroform

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1, 1, 1-Trichloroethane

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1, 2-Dichloroethane

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Carbon Tetrachloride

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Bromodich loromethane

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1, 2-Dichloropropane

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trans-1, 3-Dichloropropene

Second Services

PAGE 21 RECEIVED: 02/06/86

Analytical Serv

Results by Sample

LAB # 86-02-031 Continued From Above

SAMPLE ID trip blank

FRACTION OBA TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2—trichloroethane and cis—1,3—dichloropropene co-elute. All results reported in <u>ug/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram

LAB # 86-02-031

Serv REPORT Results by Sample

Analytical Serv

PAGE 22 RECEIVED: 02/06/86

	D BY MCL.	RESULT	QN	Q	Q	
TEST CODE GC 602 NAME EPA Method 602/GC ected not specified Category	NERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene	
FRACTION OBA TEST CODE GC 602 NA Date & Time Collected not specified	ANALYST	SCAN				
ACTION OBA	DATE INJECTED <u>02/06/86</u>	RESULT	Q	Q	N ND	Q
		COMPOUND	Benzene	Tolvene	Ethyl Benzene	Chlorobenzene
SAMPLE ID trip blank	DATA FILE DATA FILE CONC. FACTOR	N €		2 361		

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

ug/L unless otherwise specified. All results reported in

(Federal Register, 12/3/79). ND = not detected at EPA detection limit method 602, Analytical Serv

Serv REPORT NonReported Work FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE PAGE 23 RECEIVED: 02/06/86

DUP_NS DUP_NS

02H 03H

DUP 602 DUP 602 DUP 602

02F 03F 04E 03E

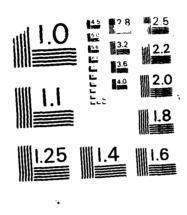
DUP 601 DUP 601 DUP 601 DUP 601

04C 05C 06E

02D 03D

362

AD-R198 442 INSTALLATION RESTORATION PROGRAM PHASE 2
COMFIRMATION/QUANTIFICATION STAG (U) RADIAN CORP
AUSTIN TX DEC 87 F33615-83-D-4001 5/7 F/G 24/7 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART

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RECEIVED: 02/07/86 PASE 1

03/01/86 16:39:21 Analytical Serv

LAB # 86-02-038

REPORT

REPORT Radian Corporation Larry French

Austin, Texas ATTEN

SAMPLES 6 **OEHL Plant 4, Bldg** General Dunamics Austin, Texas PLANT 4 CLIENT COMPANY FACILITY

General Dunamics Ft. Worth 4 Federal 321175046 <u>212-027-27-40</u> 7450 2/6/86 WORK ID TAKEN TYPE TRANS ≥ 363

PREPARED Radian Analytical Services Austin, Texas 78766 8501 MoPac Blvd (512) 454-4797 Box 9948 ص 0 β PHONE ATTEN

CONTACT FRENCH

CERTIFIED BY

Duplicate of report of 02/27/86

Footnotes and Comments

* Indicates a value less than 5 times the detection limit.

Potential error for such low values ranges between 50 and 100%

<u>specific matrix was not within acceptable limits indicating</u> <u>e Indicates that spike recoveru for this analusis on the</u> an interferent present

SAMPLE IDENTIFICATION

860126

<u>duplicate anal</u>

reagent blank

Pesticides & PCBs by GC/MS GCMS Characterization-ABN Method 625 Base/Neutrals M625 B MSNS S MS 608

Analytical Serv TEST CODES and NAMES used on this report EX 625 Extraction only - 625 BN/A Method 625 Acid Compounds M625 A

LAB # 86-02-038	Sample <u>02</u> Sample <u>03</u> Sample <u>04</u> Sample <u>05</u>	5 02/10/86 02/10/86			
REPORT Test	Sample 03	02/10/86			
ticai Serv RESULTS BY TEST		02/10/86			
Analytic	Sample 01 (entered units)	02/10/86	Sample 06 (entered units)	02/10/8 6 02/10/86	
rage 2 Received: 02/07/86	TEST CODE	EX 625 date complete	TEST CODE	EX 625 date complete	

PAGE 3 RECEIVED: 02/07/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-038

BANAN MARINTAN, AMMAMAM KIRIMINIS

SECRETARIA PROPERTIES

SAMPLE 1D 860126

FRACTION 01A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/06/86 Category

DATA FILE 2000203BC01 CONC. FACTOR

DATE EXTRACTED 02/10/86
DATE INJECTED 02/24/86

ANALYBT INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED 2

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æ	1		İ	ı	ı	
COMPOUND	4-nitrophenol	2, 4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	39A	60A	64A	65A	
SCAN					486	
NPDES SCAN	7 A	¥ n	 4	¥6	10A	
RESULT	Q	N	N	QN	QN	Q
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2-nitrophenol
EPA	21A	22A	24A	31A	34A	57A
NPDES SCAN	114	8	14	2 A	V E	6 A
Ž			2 3	365	5	

SURROGATE RECOVERIES

d3-pheno1	484	
2, 4, 6-tribromophenol 150	AS3 2, 4, 6-	1118
2-fluorophenol 150	AS2	357
d5-phenol 100	AS1	484
JUND RESULT	CODE COMPOUND	SCAN CODE

SCAN = scan number or retention time on chromatogram ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. esults reported in

PAGE 4 RECEIVED: 02/07/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860126

FRACTION <u>01A</u> TEST CODE <u>M625 A</u> NAME <u>Method 625 Acid Compounds</u>
Date & Time Collected <u>02/06/86</u>

Category

Minimum detection

NO = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

 $\mathrm{BL} = \mathsf{detected}$ in reagent blank; background subtraction not performed. J = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

Addition - process

543545

NAME Method 625 Base/Neutrals LAB # 86-02-038 LAK TEST CODE M625 B Date & Time Collected 02/06/86 66B EPA 61B 62B 63B 67B **68B** ANALYST INSTRUMENT NPDES SCAN REPORT Results by Sample 41B 43B 42B 15B 26B 13B DATE EXTRACTED 02/10/86
DATE INJECTED 02/24/86 FRACTION 01A 윋 윋 9 2 2 윋 RESULT Analytical Serv acenaphthene benzidine 1, 2, 4-trichlorobenzene hexachlorobenzene hexachloroethane bis(2-chloroethyl)ether COMPOUND 20002038001 02/07/86 SAMPLE 1D 860126 EPA 12B 18B 18 SB 88 **9B** DATA FILE IC. FACTOR NPDES SCAN RECEIVED: 46B 11B 13 4 B 33B 36B CONC 367

A O A K 月 9 S 윋 2 2 밁 RESULT 밁 2 2 2 일 일 9 밁 2 COMPOUNDS DETECTED VERIFIED BY N-nitrosodimethylamine N-nitrosodiphenylamine phthalate N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate di-butyl phthalate diethyl phthalate dimethyl phthalate phthalate benzo(a)pyrene acenaphthylene anthracene benzo(a)anthracene chrysene benzo(b)fluoranthene benzo(k)fluoranthene Category di-n-octyl butyl benzyl COMPOUND 69B 70B 71B 72B 73B 74B 75B 76B 77B **78B** 29B 188 38 24B 25B **SB 6B** 713 98 2B 윋 윋 2 밁 밁 2 욷 9 Ω Z 2 2-chloronaphthalene 1, 2-dichlorobenzene 1, 4-dichlorobenzene 3, 3'dichlorobenzidine 2,4-dinitrotoluene 2,6-dinitrotoluene 1,2-diphenylhydrazine 4-chlorophenyl phenyl ether 1,3-dichlorobenzene fluoranthene 40B 20B 25B 26B 27B 36B 378 39B 288 35B 16B 20B 21B 22B 23B 27B 288 29B 31B 17B

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LAB # 86-02-038 Continued From Above

Analytical Serv REPU Results by Sample

RECEIVED: 02/07/86

S	AMPLE	2	SAMPLE 1D 860126		FRACTION 01A	01A	TEST CO	TEST CODE M625 B	NAME Method 625 Base/Neutrals
					Date & Time Collected 02/06/86	Je Co]	lected (02/06/86	Category
	148		41B	4-bromophenyl phenyl e	ether	Q	88	79B	benzo(ghi)perylene <u>ND</u>
	12B		42B	bis(2-chloroisopropyl)e	ether	 임	32B	808	fluorene ND
	10B		43B	bis(2-chloroethoxy)met	thane	Q	44B	818	phenanthrene B ND
	34B		32B	hexachlorobutad	diene	2 2	198	828	dibenzo(a, h)anthracene ND
	358		538	hexachlorocyclopentad	diene	Q	37B	838	indeno(1,2,3-cd)pyrene ND
	388		24B	isopho	orone	2 2	45B	848	purene ND
2	39B		55B	naphthe	alene	밁			
3	40B		56B	nitrobenzene	zene	Q			
68	URROG	ATE	SURROGATE RECOVERIES	RIES					
	0,	SCAN	SCAN CODE	RESULT					

NOTES AND DEFINITIONS FOR THIS REPORT.

82

2-fluorobiphenyl

d14-terpheny1_

BS3

1485

BS2

837

BS1

612

BS4

d10-biphenyl

d5-nitrobenzene

NO = not detected at EPA detection limit method 625, (Federaï Register, 10/26/84). high concentrations. uq/l unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute All results reported in__

PAGE 7 RECEIVED: 02/07/86

REPORT Results by Sample Analytical Serv

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LAB # 86-02-038 Continued From Above

SAMPLE 1D 860126

NAME Method 625 Base/Neutrals Category

Minimum detection

FRACTION O1A TEST CODE M625 B Date & Time Collected 02/06/86 B = anthracene and phenanthrene co-elute in high concentrations.

= detected in reagent blank; background subtraction not performed. J = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1). linits should be multiplied by conc. factor. CONC. FACTOR:

PAGE 8 RECEIVED: 02/07/86	Analytical Serv REP(Results by Sample	REPORT ample	LAB # 86-02-038
איורב זע מסעובם	Date & Time Coll	lest come msns s ected 02/06/86	PRACILUN OIA 1EST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/06/86 Category
CHRO # 2002038C01 SAMPLE SIZE 1	DATE ANALYZED <u>02/24/86</u>	UNITS UG/1	VERIFIED BY LAK
SCAN	COMPOUND	RESULT	CONF REF
	No PCBs		

NAME Pesticides & PCBs by GC/MS VERIFIED BY LAK IDS DETECTED Q RESULT COMPOUNDS DETECTED alpha BHC beta BHC gamma BHC delta BHC PCB-1242 PCB-1254 PCB-1232 PCB-1248 PCB-1260 PCB-1221 LAB # 86-02-038 Category COMPOUND N N TEST CODE MS 608 FRACTION OIA TEST CODE MS 60 Date & Time Collected 02/06/86 EPA **ANALYST** 102P 103P 104P 105P 106P 107P 108P 111P 109P 110P NPDES SCAN REPORT Results by Sample ğ 9 4 ď 18P 19P 20P 21P 22P 23P NATE EXTRACTED 02/10/86 DATE INJECTED 02/24/86 RESULT 2 일 욷 2 밁 밁 밁 2 윋 Analytical Serv DATE EXTRACTED dieldrin 4, 4'-DDE endrin chlordane 4, 4'-DDD alpha endosulfan beta endosulfan endosulfan sulfate 4, 4'-DDT COMPOUND 2002038001 RECEIVED: 02/07/86 SAMPLE ID 860126 EPA 91P **89P** 90P 92P 93P 946 95P 96P 97P 986 DATA FILE S NPDES SCAN CONC 106 6P 8 96 11P 12P 14P 145 7 371 2

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PCB-1016

112P

24P

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endrin aldehyde

99P

15P

100P

16P

113P

25P

9

heptachlor

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heptachlor epoxide

101P

17P

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toxaphene

PAGE 10 RECEIVED: 02/07/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860126

FRACTION O1A TEST CODE MS 608 Date & Time Collected 02/06/86

NAME Pesticides & PCBs by GC/MS Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

m NO~= not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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PAGE 11 RECEIVED: 02/07/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-038

SAMPLE ID 860132

FRACTION 02A TEST CODE M625 A Date & Time Collected 02/06/86

NAME Method 625 Acid Compounds Category

> DATA FILE 2002038002 CONC. FACTOR

DATE EXTRACTED 02/10/84 DATE INJECTED 02/24/86

ANALYST INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED

LAK

2

4-nitrophenol

RESULT

COMPOUND

EPA

NPDES SCAN

RESULT

DMPOUND

58A

月

5-trichlorophenol

59A

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.o-3-methylphenol

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2, 4-dinitrophenol

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2-methyl-4,6-dinitrophenol

60A

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2-chlorophenol

64A

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2, 4-dichlorophenol

65A

10A

2

2,4-dimethylphenol

34A

A P

57A

6A

2

2-nitrophenol

밁

pentachlorophenol

9

phenol

	NPDES SCAN	EPA	CC
	114	21A	2, 4, 6
2	89 •	22A	4-chler
	1 A	24A	
73	2.A	31A	2,

SURROGATE RECOVERIES

SCAN CODE COMPOUND RESULT	<u>B</u> AS1 d5-phenol 116	8 AS2 2-fluorophenol 130	5 AS3 2, 4, 6-tribromophenol 120	AS4 d3-phenol
SCAN	478	358	1115	

p specified SCAN = scan number or retention time on chromatogram ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. Al_()esults reported in

PAGE 12 RECEIVED: 02/07/86

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860132

FRACTION OZA TEST CODE M625 A
Date & Time Collected 02/06/86

NAME Method 625 Acid Compounds Category

NO = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). $\mathsf{BL} = \mathsf{detected}$ in reagent blank; background subtraction not performed.

J=estimated value; less than method detection limit. CGNC. FACTOR: indicates dilution of sample if prester t

Minimum detection indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

LAB # 86-02-038

REPORT

Analytical Serv

TAK M RESULT NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY Œ, N-nitrosodimethylamine phthalate acenaphthylene N-nitrosodi-n-propulamine bis(2-ethylhexyl)phthalate phthalate phthalate phthalate phthalate benzo(a)pyrene N-nitrosodiphenylamine benzo(a)anthracene anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene Category butyl benzyl di-butyl diethyl di-n-octyl dimethyl COMPOUND F2 TEST CODE M625 B Date & Time Collected 02/06/86 66B 75B 76B 77B **78B** 67B **68B** 69B 70B 71B 72B 73B 74B EPA 61B 62B **63B** INSTRUMENT 1324 NPDES SCAN 1664 Results by Sample 26B 13B 18B 41B 43B 42B 15B 29B 24B 25B **6B** 78 2B 38 **5B** 98 02/10/86 02/24/86 2 S RESULT 2 N N 2 일 2 S 2 2 S 욷 N 2 S FRACTION OZA S ATE EXTRACTED DATE INJECTED 2,6-dinitrotoluene 2-diphenylhydrazine 40B 4-chlorophenyl phenyl ether acenaphthene benzidine 1, 2, 4-trichlorobenzene hexachloroethane bis (2-chloroethyl) ether 2-chloronaphthalene 1, 2-dichlorobenzene 1, 3-dichlorobenzene 1, 4-dichlorobenzene 3'dichlorobenzidine 2,4-dinitrotoluene fluoranthene hexachlorobenzene COMPOUND 2002038C02 RECEIVED: 02/07/86 SAMPLE 1D 860132 368 37B 18B 20B 25B 26B 27B 288 35B 39B EPA 18 12B **SB** 88 93 DATA FILE FACTOR NPDES SCAN 17B 283 29B 318 CONC. 1 B 16B 20B 218 22B 23B 46B 36B 11B 4B 33B 375

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	PAGE 14 RECEIVED:	02/07/86		Analytical Serv Resul	, ilts by	Serv REPORT Results by Sample	—	LAB # 86-02-038 Continued From Above
	SAMPLE 1D 860132	860135		FRACTION OZA Date & Time	1 02A Ime Co	RACTION OZA TEST CODE M625 Jate & Time Collected 02/06/86	TEST CODE M625 B ected 02/06/86	NAME Method 625 Base/Neutrals Category
	148	41B	4-bromophenyl pł	phenyl ether	QN	88	798	benzo(ghi)perylene ND
ታ ጉልባህ	12B	42B	bis(2-chloroisopropyl)	opyl)ether	2	32B	808	#1uorene ND
المناجع المناجع	10B	43B	bis(2-chloroethoxy)me	oxy)methane	Q	448	818	phenanthrene B ND
የራትን ታና	348	528	hexachlorobutad	obutadiene	Q	19B	82B	dibenzo(a,h)anthracene ND
מערטעי	358	23B	hexachlorocyclopentad	pentadiene	Q	37B	838	indeno(1, 2, 3-cd)pyrene ND
ሳርታሮ	388	34B		isophorone	QN	45B	848	N energe
	398	55B	-	naphthalene	Ω.			
37 (40B	26B	Ê	nitrobenzene	Q N			
6 `**`*	SURROGATE RECOVERIES	RECOVE	RIES					
ورو	SCA	SCAN CODE	RESULT	_				

RESULT	d5-nitrobenzene <u>100</u>	2-fluorobiphenyl 78	d14-terphenyl 54	d10-biphenyl
CODE	BS1	BS2	BS3	BS4
SCAN CODE	809	893	1482	

NOTES AND DEFINITIONS FOR THIS REPORT.

NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). high concentrations. unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute 04/1 All results reported in_

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PAGE 15 RECEIVED: 02/07/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860132

FRACTION OZA TEST CODE M625 B Date & Time Collected 02/06/86

NAME Method 625 Base/Neutrals Category

Minimum detection $\mathrm{BL}=\mathsf{detected}$ in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). \mathtt{B} = anthracene and phenanthrene co-elute in high concentrations. J = estimated value; less than method detection limit. limits should be multiplied by conc. factor.

LAB # 86-02-038	TEST CODE MSNS S NAME GCMS Characterization-ABN lected 02/06/86	VERIFIED BY LAK	CONF REF LEVEL CMPD	
Serv REPORT Results by Sample	ACTION O2A TEST CODE MSNS S NAMI te & Time Collected 02/06/86	1767 SINO 787	RESULT	
Analytical Serv Results	FRACTION OZA Date & Time	DATE ANALYZED <u>02/24/8</u> 6	COMPOUND	No PCBs
PAGE 16 RECEIVED: 02/07/86	SAMPLE ID 860132	CHRD # 2002038C02	SCAN	

PROSESSE REPRESENTATION SERVICES PROSESSES	C
	TOUR ATION

FRACTION 02A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/06/86 Category LAB # 86-02-038 Analytical Serv REPORT Results by Sample PAGE 17 RECEIVED: 02/07/86 SAMPLE 1D 860132

BY LAK TED Q	RESULT	Q	Z	Q	N	Q	Q	N	N	N	N	QN	S	
VERIFIED BY JNDS DETECTED		alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
COMPOUNDS	COMPOUND													
LAK														
ANALYST _	EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
₹	NPDES SCAN	2P	g G	44	e G	18P	19P	20P	21P	22P	236	24P	25P	
8 8	Z													
<u>02/10/86</u> 02/24/86	RESULT	N	N	Q	QN	QN QN	Q	Q	Q.	N	Q	Q	N	QN
	RESULT	aldrin ND	dieldrin ND		4, 4'-DDT ND	4, 4'-DDE ND	4, 4'-DDD ND		ulfan	sulfate	endrin ND	aldehyde	chlor	epoxide
	COMPOUND RESULT	ldrin		chlordane ND	Taa-	'-DDE	aaa,	alpha endosulfan ND		lfate				oxide
DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
2002038002 DATE EXTRACTED DATE INJECTED	EPA COMPOUND	ldrin			Taa-	'-DDE	aaa,	endosulfan	endosulfan	sulfate		aldehyde	chlor	epoxide
DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide

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Analytical Serv

REPORT Results by Sample

LAB # 86-02-038 Continued From Above

1355 March 1888

addition seems accepted

SAMPLE 10 860132

FRACTION 02A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/06/86 Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-038

TOTAL REPORTED TO THE PROPERTY OF THE PROPERTY

SAMPLE ID 860133

FRACTION 03A TEST CODE M625 A
Date & Time Collected 02/06/86

Category

NAME Method 625 Acid Compounds

DATA FILE 20002038003

DATE EXTRACTED 02/10/86 DATE INJECTED 02/25/86

ANALYST

VERIFIED BY LAK COMPOUNDS DETECTED

CONC. FACTOR

INSTRUMENT

M

2

2, 4-dinitrophenol

밁

2-methyl-4,6-dinitrophenol

60A

44

2

2-chlorophenol

64A

98

月

2,4-dichlorophenol

65A

10A

윋

2, 4-dimethylphenol

2

2-nitrophenol

2

pentachlorophenol

2

phenol

윋

4-nitrophenol

RESULT

COMPOUND

EPA

NPDES SCAN

RESULT

COMPOUND

58A

7

윋

39A

₹

2

EPA 21A 22A 24A NPDES SCAN 11A 8 P A ₹

2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 314 344 57A A B Ø

SURROGATE RECOVERIES

COMPOUND SCAN CODE

d5-phenol_

AS1

491

ASS

357

120

RESULT

130 2-fluorophenol

130 2, 4, 6—tribromophenol

ASB

1113

AS4

d3-phenol

SCAN = scan number or retention time on chromatogram. ug/l unless otherw AND DEFINITIONS FOR THIS REPORT. esults reported in AI NOTES

p specified.

RECEIVED: 02/07/86 PAGE 20

REPORT Results by Sample Analytical Serv

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LAB # 86-02-038 Continued From Above

SAMPLE 1D 860133

FRACTION 03A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/06/86 Category

Category

Minimum detection $100\,$ m not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed. U m estimated value: less than method detection limit. CONC. FACTOR:

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

STATE OF THE PROPERTY OF THE P	2224 PSSSSSSS	SSSSSSS CONTROL SOSSONS SOSSONS CONTROL SSSSSSS CONTROL
ZO-14 ZO LA ZO ZO ZO ZO ZO ZO ZO ZO ZO ZO ZO ZO ZO		

LAB # 86-02-038 Analytical Serv REPORT Results by Sample PAGE 21 RECEIVED: 02/07/86

FRACTION 03A TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected 02/06/86 Category SAMPLE ID 860133

F OFFICE OF THE PROPERTY OF TH	WAL VERIFIED BY LAK	COMPOUND	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate 3	butyl benzyl phthalate ND	di-butyl phthalate 2	di-n-octy¹ phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A <u>ND</u>	benzo(a)pyrene ND	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	chrysene A <u>ND</u>	acenaphthylene ND	anthracene B <u>ND</u>
	ANALYST	SCAN EPA	618	62B	8E9	1 <u>663</u> 668	678	1323 68B	869	708	718	72B	73B	74B	758	76B	77B	788
		NPDES 8	418	43B	42B	138 1	158	26B 1	29B	248	258	5B	6 B	78	98	183	28	38
-	02/10/86 02/25/86	RESULT	QN	Q	QN	QN	Q	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN
	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1, 4-dichlorobenzene	3,3'dichlorobenzidine	2,4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	nenyl phenyl ether
	2CU02038C03	U			1, 2, 4			bis(2-	ά	1,	1,	1,	б	(0	(u	1, 2-		40B 4-chlorophenyl
	DATA FILE <u>2CU</u> IC. FACTOR	SCAN EPA	18	58	88	98	12B	188	20B	258	26B	278	28 B	35B	36B	378	39B	40B
	DATA CONC. F	NPDES 8	18	4 8	468	338	89E 2	38 118	3 168	20B	218	22B	238	27B	288	29B	318	17B

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PAGE 22 Received:		02/07/86		Analytical Serv Results by		REPORT Sample		LAB # 86-02-038 Continued From Above
SAMPLE	01	SAMPLE ID 860133		FRACTION O3A TEST Date & Time Collected)3A ne Co 1	C)	ODE M625 B 02/06/86	NAME Method 625 Base/Neutrals Category
148		418	4-bromophenyl phenyl	enyl ether	QN	88	79B	benzo(ghi)perylere ND
128		42B t	bis(2-chloroisopropyl)e	opyl)ether	2 2	328	808	fluorene ND
108		43B	bis(2-chloroethoxy)methane	xy)methane	2	44B	818	phenanthrene B ND
348		528	hexachlorobutad	obutadiene	2	198	82B	dibenzo(a, h) anthracene ND
358		23B	hexachlorocyclopentad	pentadiene	 임	378	83B	indeno(1,2,3-cd)pyrene ND
88E 2		34B		isophorone	밁	45B	848	DN ene ND
38 38		53B	E	naphthalene	2			
go+		26B	in	nitrobenzene	9			
SURROGATE		RECOVERIES	IES					

NOTES AND DEFINITIONS FOR THIS REPORT.

d5-nitrobenzene

BS1

809

SCAN CODE

RESULT

2-fluorobiphenyl

d14-terphenyl

BS3

1481

BS4

BS2

832

d10-biphenyl

ND = not deterted at EPA detection limit method 6.25, (Federal Register, 10/26/84). , high concentrations. unless otherwise specified. *= benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. A $\{-\}$ enzo(a)anthracene and chrysene co-elute $\{-\}$ high concer SCAN = scan number or retention time on chromatogram enzo(a)anthracene and chrysene co-elute 00/1 All results reported in___

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PAGE 23 RECEIVED: 02/07/86

REPORT Analytical Serv Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860133

NAME Method 625 Base/Neutrals

Category

FRACTION O3A TEST CODE M625 B Date & Time Collected 02/06/86

Minimum detection BL = detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). $\mathbf{B}=\mathbf{a}$ nthracene and phenanthrene co-elute in high concentrations. J = estimated value; less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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ALC:	
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CONTRACTOR CONTRACTOR CONTRACTOR

CONTRACTOR ASSESSMENT ACCOUNT

LAB # 86-02-038	FRACTION 03A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/06/86 Category	VERIFIED BY LAK	CONF REF LEVEL CMPD
REPORT Sample	TEST CODE MSNS S NAME	UNITS 49/1	RESULT
Analytical Serv Results by Sample	FRACTION 03A Date & Time Co	DATE ANALYZED <u>02/25/86</u>	COMPOUND No PCBs
PAGE 24 RECEIVED: 02/07/86	SAMPLE ID 860133	CHRD # <u>2002038C03</u> SAMPLE SIZE <u>1</u>	SCAN

2000 • 2000 SON

LAB # 86-02-038 Category TEST CODE MS 608 FRACTION 03A TEST CODE MS 60 Date & Time Collected 02/06/86 REPORT Results by Sample Analytical Serv RECEIVED: 02/07/86 SAMPLE 1D 860133

NAME Pesticides & PCBs by GC/MS

LAK O 밁 일 윋 밁 밁 밀 윋 밁 윋 밁 2 Ä RESULT VERIFIED BY COMPOUNDS DETECTED PCB-1248 PCB-1260 alpha BHC beta BHC gamma BHC delta BHC PCB-1242 PCB-1254 PCB-1232 PCB-1016 toxaphene PCB-1221 COMPOUND 걸 ANALYST 102P 104P 109P 110P 111P 112P 103P 105P 106P 107P 108P 113P NPDES SCAN 21P 18P 199 20P 22P **23P 24P** 25P 2 36 4 P DATE EXTRACTED 02/10/86 DATE INJECTED 02/25/86 2 윋 RESULT 윋 뮏 2 2 일 2 2 2 밁 윋 밁 aldrin dieldrin chlordane 4, 4'-DDE 4, 4'-DDD alpha endosulfa: beta endosulfan endosulfan sulfate endrin endrin aldehyde heptachlor epoxide 4, 4'-DDT heptachlor COMPOUND DATA FILE <u>2CU02038C03</u> CDNC. FACTOR **89P** 90P 91P 92P 93P 94P 95P 96P **97P** 986 **446** 100P 101P NPDES SCAN 156 11P 12P 14P 14P 16P 17P 7 10p 9 8 387 2

PAGE 26 RECEIVED: 02/07/86

REPORT Analytical Serv

Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860133

FRACTION 03A TEST CODE MS 608 Date & Time Collected 02/06/86

NAME Pesticides & PCBs by GC/MS Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified

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REPORT Results by Sample Analytical Serv

LAB # 86-02-038

SAMPLE ID 860134

FRACTION <u>04A</u> TEST CODE <u>M625 A</u> NAME <u>Method 625 Acid Compounds</u> Date & Time Collected <u>02/06/86</u> Category

Category

DATA FILE 2CU02038C04 CONC. FACTOR 1

DATE EXTRACTED <u>02/10/86</u>
DATE INJECTED <u>02/25/86</u>

ANALYST INSTRUMENT

M

VERIFIED BY LAK IDS DETECTED 0 COMPOUNDS DETECTED

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X	į	- 1		I	-	
COMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
NPDES SCAN	7.	S. A.	4	9 A	10A	
RESULT	QN	QN	QN	Q	QN	Q
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2-nitrophenol
EPA	21A	22A	244	31A	34A	57A
SCAN						
NPDES	11A	₹ 2	₹ 38	₹ 9	9. 3A	6
المراسية مرام	. √و• و٠				A	

SURROGATE RECOVERIES

COMPOUND RESULT	d5-phenol 130	2-fluorophenol280	2, 4, 6-tribromophenol <u>72</u>	d3-pheno1
CODE	AS1	AS2	AS3	484
SCAN CODE	482	366	1114	

a specified. SCAN = scan number or retention time on chromatogram ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. esults reported in

PAGE 28 RECEIVED: 02/07/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860134

FRACTION 04A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/06/86 Category

Minimum detection ND $^{\pm}$ not detected at EPA detection limit method 625, (Federal Register, 11/26/84). $\mathrm{SL}=$ detected in reagent blank; background subtraction not performed. J = estimated value; less than method detection limit. CONC. FACTOR:

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

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chrysene

2

acenaphthylene

77B

2B

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fluoranthene

78B

38

윋

40B 4-chlorophenyl phenyl ether

76B

18B

2

1,2-diphenylhydrazine

37B

29B

39B

318

17B

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anthracene

2

NAME Method 625 Base/Neutrals VERIFIED BY COMPOUNDS DETECTED N-nitrosodimethylamine N-nitrosodiphenylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-butyl phthalate di-n-octyl phthalate phthalate dimethyl phthalate benzo(a)pyrene benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene LAB # 86-02-038 Category diethyl COMPOUND M F2 TEST CODE M625 B Date & Time Collected 02/06/86 EPA 61B **66B** 67B **68B 69**B 70B 718 72B 73B INSTRUMENT 62B 63B 74B 75B NPDES SCAN 1324 REPORT Results by Sample 26B 41B 43B 42B 13B 15B 29B 24B 258 **2**B 6В 78 **9B** DATE EXTRACTED 02/10/86
DATE INJECTED 02/25/86 2 RESULT 2 2 2 2 FRACTION 04A 2 윋 윋 일 밁 일 S S Analytical Serv 1, 2, 4-trichlorobenzene 2-chloronaphthalene 1, 2-dichlorobenzene 1, 4-dichlorobenzene acenaphthene benzidine hexachlorobenzene hexachloroethane bis(2-chloroethyl)ether 1, 3-dichlorobenzene 3'dichlorobenzidine 2, 4-dinitrotoluene 2,6-dinitrotoluene COMPOUND 20002038004 ကဲ 02/01/86 SAMPLE 1D 860134 EPA 18 12B 18B 20B 25B 26B 27B 368 88 288 358 SB 98 DATA FILE CONC. FACTOR NPDES SCAN RECEIVED: PAGE 29 22B 1B 46B **33B** 36B 118 168 20B 218 23B 27B 288 43 391 2

Secretary secretary proposed proposed	C

LAB # 86-02-038 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene ND	#luorene ND	phenanthrene B ND	dibenzo(a,h)anthracene ND	indeno(1,2,3-cd)pyrene ND	UN anathd		
REPORT ID 1e	FRACTION 04A TEST CODE M625 B Date & Time Collected 02/06/86	79B	808	818	828	838	848		
REP Sample	TEST llected	88	32B	44B	198	37B	43B		
Serv Results by Sample	N 04A Time Co	Q	Q	Q N	Q N	QN	2	2	QN
Analytical		4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether _	bis(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene _	isophorone	naphthalene	nitrobenzene
02/01/	860134	418	428	43B	528	538	24B	55B	26B
PAGE 30 RECEIVED: 02/07/86	SAMPLE ID 860134	148	128	108	348	358	88E 2	39 39	2 408

SURROGATE RECOVERIES

RESULT	d5-nitrobenzene 112	2-fluorobiphenyl 94	d14-terphenyl88	d10-biphenyl
SCAN CODE	609 BS1	833 BS2	1481 BS3	BS4

NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in <u>uq/l</u> unless otherwise specified. ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). ,high concentrations. = benzo(b) fluoranthene and benzo(k) fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute

CORPORATION

PAGE 31 RECEIVED: 02/07/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860134

FRACTION 04A TEST CODE M625 B Date & Time Collected 02/06/86

NAME Method 625 Base/Neutrals Category

Minimum detection $\mathsf{BL} = \mathsf{detected}$ in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations. U = estimated value; less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

LAB # 86-02-038	TEST CODE MSNS S NAME GCMS Characterization-ABN lected 02/06/86	VERIFIED BY LAK	CONF REF LEVEL CMPD
REPORT Sample	ACTION 04A TEST CODE MSNS S NAMI te & Time Collected 02/06/86	UNITS 49/1	RESULT
Analytical Serv Results by Sample	FRACTION 04A Date & Time Co	DATE ANALYZED 02/23/86	COMPOUND No PCBs
PAGE 32 RECEIVED: 02/07/86	SAMPLE 1D 860134	CHRG # 2002037504 SAMPLE SIZE 1	SCAN

CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR

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PAGE 33 RECEIVED: 02/07/86

Results by Sample Analytical Serv

LAB # 86-02-038

SAMPLE ID 860134

FRACTION 04A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/06/86

DATE EXTRACTED <u>02/10/86</u>
DATE INJECTED <u>02/25/86</u> DATA FILE 2002038004 CONC. FACTOR

ANALYST

VERIFIED BY LAK COMPOUNDS DETECTED __0

RESULT	N	Š	Q	Z	S	Q.	Q	S	Ž	N	N	N	
	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
COMPOUND													
EPA	102P	103P	104P	103P	106P	107P	108P	109P	110P	111P	112P	113P	
SCAN													
NPDES	9	සි 	4	in in	18P	19P	20P	21P	22P	23P	24P	25P	
RESULT	Q	QN	Q	N	ND	QN	N	N	Ž	ND	N	N	Q.
	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	endosulfan	endosulfan	n sulfate	endrin	aldehyde	heptachlor	r epoxide
COMPOUND							elpha e	betae	endosulfan		endrin	£	heptachlor
EPA	89P	90P	916	92P	93P	94P	95P	96P	97P	48 <i>b</i>	466	100P	101P
NPDES SCAN													
PDES	G	10P	6	7P	8	Q	116	12P	14P	146	15P	16P	17P
7			2	39									



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REPORT Analytical Serv REPO Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE ID 860134

FRACTION 04A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/06/86

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

PAGE 35 RECEIVED: 02/07/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-038

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SAMPLE 1D 860135

FRACTION 05A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/06/86 Category

Category

DATA FILE 20002038005 CONC. FACTOR

DATE EXTRACTED 02/10/86 DATE INJECTED 02/25/86

INSTRUMENT ANAL YST

VERIFIED BY COMPOUNDS DETECTED

SCAN					494
NPDES	7.	4 0	4	44 1	ND 1 10A 496
RESULT NPDES SCAN	N	Ŋ	Q	Q	2
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenal	2-chlorophenol	2, 4-dichlorophenol	2, 4-dimethulohenol
EPA	21A	22A	24A	31A	34A
SCAN					
NPDES SCAN	11A	8 A	0 14	% 20'	# **
			2 ※※	39'	(<u>()</u>

밁

pentachlorophenol

N

phenol

2

2-methyl-4, 6-dinitrophenol

60A

64A

65A

밁

2-nitrophenol

밁

2, 4-dinitrophenol

RESULT

COMPOUND

EPA

584

59A

4-nitrophenol

SURROGATE RECOVERIES

4

RESULT	d5-phenol 105	ophenol 140	ophenol 140	d3-phenol
COMPOUND	6	2-fluorophenol	2, 4, 6-tribromophenol	CP CP
SCAN CODE	494 AS1	37 <u>2</u> AS2	1137 AS3	AS4

SCAM = scan number or retention time on chromatogram ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. esults reported in

PAGE 36 RECEIVED: 02/07/86

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Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-038 Continued From Above

CACCOCKS.

SAMPLE 1D 860135

FRACTION 05A TEST CODE M625 A
Date & Time Collected 02/06/86

NAME Method 625 Acid Compounds Category

Minimum detection NO $^{\pm}$ not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). U m estimated value; less than method detection limit.

limits should be multiplied by conc. factor.

RADIAN CORPORATION

FRACTION 05A TEST CODE M625 B PAGE 37 RECEIVED: 02/07/86 **SAMPLE 10 860135**

Analytical Serv REPORT Results by Sample

LAB # 86-02-038

NAME Method 625 Base/Neutrals

Category	WUL VERIFIED BY LAK F2 COMPOUNDS DETECTED 1	COMPOUND	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate ND	butyl benzyl phthalate ND	di-butyl phthalate 3	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A <u>ND</u>	benzo(a)pyrene <u>ND</u>	benzo(b)fluoranthene * <u>ND</u>	benzo(k)fluoranthene * ND	chrysene A ND	acenaphthylene ND	anthracene B ND
02/06/86	ANALYST	N EPA	618	62B	N 869	66B bi	67B	889 <u>B</u>	869	708	718	72B	738	748	758	768	778	788
Collected <u>0</u>		NPDES SCAN	418	43B	428	138	158	26B 134B	29B	248	25B	5B	6 B	78	98	188	28	38
Time	02/10/86 02/25/86	RESULT	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	2	Z	Q	2	Q	QN
Date &	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1, 4-dichlorobenzene	3,3'dichlorobenzidine	2, 4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	enyl phenyl ether
	2CU02038C05																	4-chlorophenyl
	DATA FILE 20	SCAN EPA	18	58	88	98	12B	188	208	25B	268	278	288	358	368	37B	398	40B
	DAT CONC.	NPDES	# # #	48	468	33B	89E 2	3	39 18 18	20B	218	22B	238	27B	288	298	318	178

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LAB # 86-02-038 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene ND	fluorene ND	phenanthrene B ND	dibenzo(a, h) anthracene ND	indeno(1,2,3-cd)pyrene ND	QN austral			
TAC.	TEST CODE M625 B ected 02/06/86	798	808	818	828	838	848			
REPORT Sample	TEST (88	328	44B	198	378	45B			
Analytical Serv Results by Sample	FRACTION 05A TEST CODE M625 Date & Time Collected 02/06/86	4-bromophenyl phenyl ether ND :	bis(2-chloroisopropyl)ether ND	bis(2-chloroethoxy)methane ND	hexachlorobutadiene ND	hexachlorocyclopentadiene ND i	isophorone	naphthalene <u>ND</u>	nitrobenzene ND	
02/01/86	860135	41B 4-b	42B bis(43B bis	528	53B he	54B	35B	56B	RECOVERIES
PAGE 38 RECEIVED:	SAMPLE ID 860135	148	128	103	34B	358	88E 2	86 40	0	SURROGATE

RESULT	d5-nitrobenzene 122	2-fluorobiphenyl 80	d14-terphenyl78	d10-biphenyl
SCAN CODE	<u>625</u> BS1	904 352	150 <u>6</u> 853	BS4
ŭ	٦	٦١	퓌	

NOTES AND DEFINITIONS FOR THIS REPORT.

14D = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). $_{
m j}$ high concentrations. uq/1 unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute All results reported in___

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Analytical Serv REPORT Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE 1D 860135

860135

FRACTION 05A TEST CODE M625 B Date & Time Collected 02/06/86

NAME Method 625 Base/Neutrals Category

Minimum detection

 $\mathrm{SL} = \mathrm{detected}$ in reagent blank; background subtraction not performed. 3 = anthracene and phenanthrene co-elute in high concentrations.

J estimated value; less than method detection limit. CONC. FACTOR: indicates dilution of sample if greater t

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

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LAB # 86-02-038	ACTION 05A TEST CODE MSNS S NAME GCMS Characterization-ABN te & Time Collected 02/06/86	VERIFIED BY <u>LAK</u>	CONF REF LEVEL CMPD
REPORT Sample	TEST CODE MSNS S NAM	UNITS 44/1	RESULT
Analytical Serv Results by Sample	FRACTION 05A Date & Time Co	DATE ANALYZED <u>02/25/86</u>	COMPOUND No PCBs
PAGE 40 RECEIVED: 02/07/86	SAMPLE ID 860135	CHRO # <u>2002038C05</u> SAMPLE SIZE <u>1</u>	SCAN

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FRACTION OSA TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/06/86 Category LAB # 86-02-038 Analytical Serv REPORT Results by Sample PAGE 41 RECEIVED: 02/07/86 **SAMPLE ID 860135**

WJL COMPOUNDS DETECTED BY LAK	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene	
ANALYST	SCAN EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
	NPDES S	9	æ	46	P.	18P	19P	20P	21P	22P	23P	24P	25P	
<u>02/10/86</u> 02/25/86	RESULT	QN	Q	QN	QN	Q	QN	QN	QN	QN	QN	QN	QN	QN
DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
<u>2002038005</u>	EPA CO	89Р	90P	91P	92P	93P	94P	956	96P	97P 97P	98P	d66	100P	101P he
DATA FILE IC. FACTOR	SCAN												-	
DAT CDNC.	NPDES	1.	10b	4 O	3 7	8 9	96	11P	12P	14P	146	15P	16P	17P
			2	40	<i>3</i>									

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Analytical Serv REPORT Results by Sample

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LAB # 86-02-038 Continued From Above

SAMPLE ID 860135

FRACTION 05A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/06/86

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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RECEIVED: 02/07/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-038

860126 SAMPLE ID duplicate anal.

FRACTION 06B TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified

Category

2CD02038C06 DATA FILE CONC. FACTOR

INSTRUMENT ANAL YST

DATE EXTRACTED <u>02/10/86</u> DATE INJECTED <u>02/24/86</u>

VERIFIED BY COMPOUNDS DETECTED

LA A

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RESULT

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(1)

4-nitrophenol pentachlorophenol 2, 4-dinitrophenol 2-methyl-4, 6-dinitrophenol COMPOUND **60A 38A 39A 64A 65A** 484 NPDES SCAN 10A 7 34 44 9A RESULT 윋 2 2 윉 욷 윋 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol 2-chlorophenol 2, 4-dichlorophenol 2,4-dimethylphenol 2-nitrophenol COMPOUND EPA 21A 22A 24A 31A 344 **57A** NPDES SCAN A B **6**A 11A 14 Ø V 2 405

SURROGATE RECOVERIES

SCAN CODE COMPOUND RESULT	AS1 d5-phenol 13	AS2 2-fluorophenol 290	AS3 2, 4, 6-tribromophenol B	AS4 d3-phenol
CODE	AS1	AS2	AS3	AS4
SCAN	483	357	1114	

p specified SCAN = scan number or retention time on chromatogram. Ug/l unless otheru AND DEFINITIONS FOR THIS REPORT. esults reported in NOTES

RECEIVED: 02/07/86

REPORT Analytical Serv

LAB # 86-02-038 Continued From Above

SAMPLE ID duplicate anal. 860126

Results by Sample

FRACTION 06B TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

Minimum detection NO = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). indicates dilution of sample if greater than one (1). BL = detected in reagent blank; background subtraction not performed. J = estimated value; less than method detection limit. limits should be multiplied by conc. factor.

02/01/86 PAGE 45 RECEIVED: (

REPORT Results by Sample Analytical Serv

LAB # 86-02-038

Š 2 S S 밁 ¥ Q 2 2 2 2 2 2 RESULT NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-butyl phthalate phthalate phthalate ∢ benzo(a)pyrene N-nitrosodimethylamine N-nitrosodiphenylamine phthalate benzo(a)anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene Category di-n-octyl diethyl dimethyl COMPOUND LAK FZ Date & Time Collected not specified TEST CODE M625 B 61B 62B **63B** 66B 67B **889 69B** 70B 71B 72B 73B 74B 75B 76B INSTRUMENT ANALYST 1324 NPDES SCAN 26B 29B 24B 25B 18B 41B 43B 42B 13B 15B **SB 6B** 713 9B 02/10/86 DATE INJECTED 02/24/86 2 FRACTION 06B RESULT 밁 2 2 2 S 2 Š 2 S S 2 2 2 DATE EXTRACTED 3'dichlorobenzidine 2, 4-dinitrotoluene 1,2-diphenylhydrazine acenaph thene benzidine 1, 2, 4-trichlorobenzene hexachlorobenzene hexachloroethane bis(2-chloroethyl)ether 2-chloronaphthalene 1, 2-dichlorobenzene 1, 3-dichlorobenzene 1, 4-dichlorobenzene 2,6-dinitrotoluene COMPOUND 860126 SAMPLE ID duplicate anal. 2CP02038C06 EPA 88 12B 18B 20B 25B 26B 27B 283 35B 36B 37B 18 **SB** 93 DATA FILE CONC. FACTOR NPDES SCAN **2** 118 891 40 **4**20B 23B 27B 28B 29B 46B 338 36B 21B 22B 100 **4B**

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acenaphthylene

77B

28

S

fluoranthene

39B

31B

17B

78B

38

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40B 4-chlorophenyl phenyl ether

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anthracene

SAMPLE ID duplicate anal. 860126 FRACTION Q6B TEST CODE M625 B NAME Method 625 Base/Neutrals 148 418 4-bromophenyl phenyl ether ND 328 808 fluorene ND 148 818 phenanthrene ND 148 828 phenanthrene ND 14	# # 1938
--	----------

NOTES AND DEFINITIONS FOR THIS REPORT

d14-terphenyl

2-fluorobiphenyl

BS2

833

BS3

1114

BS4

d10-biphenyl

NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). , high concentrations. All results reported in <u>uq/l</u> unless otherwise specified. \star = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute

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REPORT Analytical Serv

Results by Sample

LAB # 86-02-038 Continued From Above

CARRIE STRANGE RESISTED TO SERVICE

SAMPLE ID duplicate anal. 860126

FRACTION 06B TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category

Category

Minimum detection

B = anthracene and phenanthrene co-elute in high concentrations.

BL ≈ detected in reagent blank; background subtraction not performed. J = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1). linits should be multiplied by conc. factor. CONC. FACTOR:

> 409 2

PAGE 48 RECEIVED: 02/07/86	88	Analy	Analytical Serv REPOF Results by Sample	REPORT Sample	LAB # 86-02-038
JAIN LL IN MUPITLANE ANAIL GOVIED	מים מוסד.	000150	Date & Time Co	lected not specified	Date & Time Collected not specified Category
CHRD # <u>2002038C06</u> SAMPLE SIZE <u>1</u>	2038006	DATE A	DATE ANALYZED <u>02/24/86</u>	UNITS 44/1	VERIFIED
	SCAN	COMPOUND		RESULT	CONF REF LEVEL CMPD
		No PCBs			

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Analytical Serv REPORT Results by Sample

LAB # 86-02-038

SAMPLE ID duplicate anal. 860126

FRACTION O6B TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified

Category

VERIFIED BY LAK COMPOUNDS DETECTED O	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
ANALYST	SCAN EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
	NPDES	2	g G	44	ą.	18P	19P	20P	218	22P	23P	24P	25P	
<u>02/10/86</u> 02/24/86	RESULT	QN	Q	Q	Q	Q	QN	QN	QN	Q	QN	QN	QN	QΝ
DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
1LE <u>2CD02038C06</u> FOR	EPA	896	90P	916	92P	93P	94P	956	96P	97P	48b	466	100P	101P
DATA FILE CONC. FACTOR	NPDES SCAN	<u>a.</u>	10P	a 9 2	۶ 41	8 1	d6	11 P	12P	14P	14P	# SP	16P	17P

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Analytical Serv REPORT Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE ID duplicate anal. 860126

FRACTION 06B TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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PAGE 51 RECEIVED: 02/07/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-038

SAMPLE ID reagent blank

FRACTION OGC TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

DATA FILE 2EB02038C06 CONC. FACTOR

DATE EXTRACTED 02/10/86 DATE INJECTED 02/24/86

INSTRUMENT

LAK

VERIFIED BY LAK IDS DETECTED Q COMPOUNDS DETECTED

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RES					-	
COMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
NPDES SCAN	7A	ų,	4	9 A	10A	
RESULT	QN	QN	QN	QN	Q2	QN
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2,4-dimethylphenol	2-nitrophenol
EPA	21A	22A	24A	314	34A	57A
SCAN						
NPDES	114	88 A	⊈ 2 4	∜ 13	AE.	6 A
	erane.					or on

SURROGATE RECOVERIES

COMPOUND RESULT	d5-phenol140	2-fluorophenol200	2, 4, 6-tribromophenol78	d3-phenol
CODE	AS1	452	AS3	AS4
SCAN CODE	477	350	1114	

SCAN = scan number or retention time on chromatogram ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. esults reported in

specified

PAGE 52 RECEIVED: 02/07/86

Analytical Serv

Results by Sample

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LAB # 86-02-038 Continued From Above

SAMPLE ID reagent blank

FRACTION OGC TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). $\mathsf{BL} = \mathsf{detected}$ in reagent blank; background subtraction not performed.

indicates dilution of sample if greater than one (1). U = estimated value; less than method detection limit. CONC. FACTOR:

Minimum detection

limits should be multiplied by conc. factor.

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Analytical Serv REPORT Results by Sample

LAB # 85-02-038

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FRACTION O6C TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category SAMPLE ID reagent biank

	BY LAK ED Q	RESULT	QN	3	S	QN	Q	QN	QN	Q	Q	S	Q	S	N	N	Q	Q
5 0 5 0 5 0	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	N-nitrosadimethylamine _	N-nitrosodiphenylamine	N-nitrosodi-n-propylamine	bis(2-ethylhexyl)phthalate _	benzyl phthalate	di-butyl phthalate _	di-n-octyl phthalate _	diethyl phthalate _	dimethyl phthalate _	benzo(a)anthracene A	benzo(a)pyrene _	benzo(b)fluoranthene * _	benzo(k)fluoranthene * _	chrysene A_	acenaphthylene _	anthracene B
7	FZ	U	N-nit	N-n i t	N-nitros	bis(2-eth	buty1	70	di−		פ	benz		benzo(benzo(
	ANALYST TRUMENT	EPA	61B	62B	63B	66B	67B	68B	69B	70B	718	728	738	74B	758	768	778	788
	ANALYST INSTRUMENT	SCAN																
> 3 8	al al	NPDES	41B	43B	42B	13B	15B	26B	29B	24B	258	58	6 B	78	98	188	28	38
•																		
	02/10/86 02/24/86	RESULT	QN	N	N	ND	N	N	ΩN	QN	QN	ND	QN	QN	ND	N	N	Q
5	DATE EXTRACTED <u>02/10/</u> DATE INJECTED <u>02/24/</u>		acenaphthene ND	benzidine ND	ene	hexachlorobenzene ND	hexachloroethane ND	ther	ene	ene	ene	ene	dine	ene	ene	ine	fluoranthene ND	phenyl ether
	DATE EXTRACTED DATE INJECTED	COMPOUND	ene	dine		ene	hexachloroethane		2-chloronaphthalene		1, 3-dichlorobenzene		ine			1,2-diphenylhydrazine	fluoranthene	4-chlorophenyl phenyl ether
			ene	dine	ene	ene	hane	ther	ene	ene	ene	ene	dine	ene	ene	ine	ene	phenyl ether



LAB # 86-02-038 Continued From Above	TEST CODE M625 B NAME Method 625 Base/Neut	benza (ghi) perylene	fluorene	phenanthrene B	dibenzo(a,h)anthracene	indeno(1,2,3-cd)pyrene	pyrene _
—	FRACTION OGC TEST CODE M625 B NA Date & Time Collected not specified	798	808	818	82B	838	848
REPORT Sample	TEST CO	88	32B	44B	198	378	45B
Serv REP Results by Sample	FRACTION <u>06C</u> Date & Time Co	QN	QN	Q	Q	QN	Q
Analytical Serv Resu		4-bromophenyl phenyl ether	42B bis(2-chloroisopropyl)ether	bi: (2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene	isophorone
02/07/86	reagent t	418 4-	42B bis	43B b	52B	538 1	54B
PAGE 54 RECEIVED: (SAMPLE ID reagent blank	148	12B	108	34B	358	388

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OSURROGATE RECOVERIES

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nitrobenzene

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naphthalene

55B

39B

2

56B

40B

41

RESULT	d5-nitrobenzene <u>146</u>	2-fluorobiphenyl <u>81</u>	d14-terphenyl 94	d10-biphenyl
CODE	851	BS2	ES3	BS4
SCAN CODE	909	832	1480	

NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in <u>ug/l</u> unless otherwise specified. NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). high concentrations = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute

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REPORT Analytical Serv Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE ID reagent blank

FRACTION O6C TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified

Category

Minimum detection BL ≕ detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co~elute in high concentrations J = estimated value; less than method detection limit. linits should be multiplied by conc. factor. CONC. FACTOR:

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FRACTION O6C TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected not specified Category LAB # 86-02-038 CONF LEVEL RESULT UNITS UG/1 REPORT Analytical Serv Results by Sample DATE ANALYZED 02/24/86 COMPOUND No PCBs CHMO # 2802038CO6 SAMPLE SIZE 1 SAMPLE ID reagent blank SCAN PAGE 56 RECEIVED: 02/07/86

VERIFIED BY LAK

REF CMPD

REPORT Results by Sample Analytical Serv

LAB # 86-02-038

RECEIVED: 02/07/86

SAMPLE ID reagent blank

FRACTION OGC TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

A O

VERIFIED BY COMPOUNDS DETECTED COMPOUND M EPA 102P **ANALYST** NPDES SCAN 9 DATE EXTRACTED 02/10/86
DATE INJECTED 02/24/86 RESULT 뮏 aldrin COMPOUND DATA FILE <u>2EB02038C06</u> CONC. FACTOR **89P** NPDES SCAN

밁 2 일 일 2 Q 밁 윋 RESULT 윋 alpha BHC gamma BHC PCB-1242 PCB-1232 PCB-1248 beta BHC delta BHC PCB-1254 PCB-1221 103P 104P 105P 106P 107P 108P 109P 110P 20P 21P 22P 9 44 ģ 18P 19P 2 2 윋 S 윋 일 윋 밁 dieldrin chlordane 4, 4'-DDE 4, 4'-DDD alpha endosulfan beta endosulfan endosulfan sulfate 4, 4'-DDT 91P 90P 92P 93P 94P 95P 96P 97P 10P 9 1 1P 12P 14P 8 90 419

2

PCB-1260

1111

23P

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endrin

989

14P

466

15P

112P

24P

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endrin aldehyde

113P

25P

2

heptachlor

2

heptachlor epoxide

101P

17P

100P

16P

일

PCB-1016

9

toxaphene

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PAGE 58 RECEIVED: 02/07/86

REPORT Analytical Serv Results by Sample

LAB # 86-02-038 Continued From Above

SAMPLE ID reagent blank

FRACTION O6C TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

 $10~\pm$ not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

Analytical Serv

Serv REPORT NonReported Work

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE PAGE 59 RECEIVED: 02/07/86

DUP_NS DUP_NS DUP_NS DUP_NS 01B 02B 03B 04B 05B

2 421

specific matrix was not within acceptable limits indicating * Indicates a value less than 5 times the detection limit. Second column confirmation performed for EPA 601: -02,-03, CONTACT CONDVER e Indicates that spike recovery for this analysis on the CERTIFIED BY Potential error for such low values ranges between Analytical Serv TEST CODES and NAMES used on this report -04, -05, -06; for EPA 602: -02, -03 Radian Analutical Services Footnotes and Comments "Unknown compound eluting here. Austin, Texas 78766 Digestion by Method 3020 Digestion by Method 6010 Dil and Grease, Infrared 8501 MoPac Blvd (512) 454-4797 an interferent present. Box 9948 Hudrocarbons in soi Mercury, Cold Vapor 02/27/86 17:56:44 Arsenic, low level Method 602/GC EPA Method 601/GC Chromium, ICPES Lead, low level Cadmium, ICPES Barium, ICPES Silver, ICPES P. O. 50 and 100% PREPARED PHONE ATTEN 063020 366010 GC 602 GC 601 ONG IR PB GA SE GA AS GA HC IR HG CA BA E CR E CD E FACILITY Carswell AFB (Gen. Dunamics) SAMPLES under separate cover SAMPLE IDENTIFICATION 212-027-27-40 ATTEN Larry French groundwater RECEIVED: 02/07/86 Plant 4 REPORT Radian Austin PLANT4 Fed Ex field blank trip blank 860126 860130 B60132 860135 860134 TRANS 860131 MORK ID CL IENT COMPANY TAKEN INVOICE TYPE 0.0 2 22

Selenium, low level

Analytical Serv

LAB # 86-02-041

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PAGE 2

LAB # 86-02-041

Analytical Serv REPORT RESULTS BY TEST

(entered units) <. 002 <. 002 0.048 <. 0002 <. 002 0.010* 0.005* 0.17 Sample 05 02/12/86 02/11/86 (entered units) 0.003* <. 005 0.003* 0.054 <. 002 0.12 ₹. 0002 < 905 > Sample 04 02/12/86 02/11/86 Sample 03 (entered units) 0.0003* <. 002 <1.0 <1.0 <. 005 0.53 **<**.002 <. 002 0.019* 02/12/86 02/11/86 <u>*</u>: 0.003* (1.0 mg/L (.0002 Sample 02 (entered units) <. 005 0.003* <.002 0.019* C. 002 C 002 02/12/86 02/11/86 1. 1¥ 0.51 (entered units) <. 002 <. 005 0.076 **<. 002** 0.0002* <. 002e 0.007* 0.003* 02/12/86 02/11/86 Sample 01 default units date complete TEST CODE AS GA AS GA CD E CD E CR E CR E DG3020 UNG IR mg/L PB GA ug/m1 SE GA 066010 HC IR ug/g HG CA 423

PAGE 3 RECEIVED: 02/07/86	Analytical	Serv REPORT RESULTS BY TEST	LAB # 86-02-041
TEST CODE	Sample 06 (entered units)		
4	<. 002		
AS GA	<. 005		
W Comment	0.099		
	<. 002		
	<. 005		
DG3020	02/12/86		
010901	02/11/86		
	<. 0002		
W	0.003*		
S S	<. 002		
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LAB # 86-02-041

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Results by Sample

RESULT COMPOUNDS DETECTED VERIFIED BY Bromoform Trichloroethene Chlorobenzene 2-Chloroethylvinyl Ether 1, 3-Dichlorobenzene 1,2-Dichlorobenzene 1, 4-Dichlorobenzene NAME EPA Method 601/GC Dibromochloromethane 1, 1, 2, 2-Tetrachloroethane 1, 1, 2-Trichloroethane **Tetrachloroethylene** cis-1, 3-Dichloropropene Category COMPOUND 8 TEST CODE GC 601 Date & Time Collected 02/06/86 ANALYST INSTRUMENT SCAN DATE INJECTED 02/11/86 FRACTION O1A 9 S 9 2 S 밁 月 밁 밁 2 밁 2 밁 RESULT Chloromethane Chloroethane trans-1, 2-Dichloroethene Chlaroform trans-1, 3-Dichloropropene Bromome thane Vinyl Chloride **Trichlorofluoromethane** 1, 1-Dichloroethane 1, 2-Dichloroethane 1, 1, 1-Trichloroethane Methylene Chloride 1, 1-Dichloroethene Carbon Tetrachloride Bromodichloromethane 1,2-Dichloropropane COMPOUND 0 SAMPLE 1D 860126 DATA FILE NC. FACTOR SCAN CONC

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Analytical Serv REPORT Results by Sample

LAB # 86-02-041 Continued From Above

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SAMPLE 1D 860126

FRACTION OIA TEST CODE GC 601 Date & Time Collected 02/06/86

NAME EPA Method 601/6C Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. <u>ug/L</u> unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in_

			D BY MCL	RESULT	QN	Q	Q		
	LAB # 86-02-041	NAME EPA Method 602/6C Category	RP VERIFIED BY	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
	REPORT Sample	ACTION 01C TEST CODE GC 602 te & Time Collected 02/06/86	ANALYST	SCAN					
	l Serv REPU Results by Sample	ACTION <u>01C</u> te & Time Col	DATE INJECTED <u>02/10/86</u>	RESULT	- QN	QN	QN	 Ω	
20	Analytical	FRA	DATE INJEC	COMPGUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
CORPORATION	PAGE 6 RECEIVED: 02/07/86	SAMPLE ID 860126	DATA FILE	SCAN		2 4	27		

ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in $\frac{\log L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

LAB # 86-02-041	GC 601 NAME EPA Method 601/GC Category	VST RP VERIFIED BY MCL	COMPOUND RESULT	Trichloroethene 10,979	Dibromochloromethane * ND	1, 1, 2-Trichloroethane * ND	cis-1, 3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform ND	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene 308	1, 3-Dichlorobenzene ND	1,2-Dichlorobenzene ND	1,4-Dichlorobenzene ND				
REPORT Sample	TEST CODE GC 601	ANALYST INSTRUMENT	SCAN	2	1	1						E		ļ					
Analytical Serv Results by Sample	FRACTION OZA TEST CODE GC 60 Date & Time Collected 02/06/86	G DATE INJECTED 02/11/86	COMPOUND	Chloromethane ND !	Bromomethane ND	Vinyl Chloride ND	Chloroethane ND	Methylene Chloride ND	Trichlorofluoromethane ND 1	1,1-Dichloroethene ND	1,1-Dichloroethane ND	trans-1,2-Dichloroethene 3067~ 1	Chloroform ND	1.2-Dichloroethane ND	1, 1, 1-Trichloroethane ND	Carbon Tetrachloride ND	Bromodichloromethane ND	1,2-Dichloropropane ND	trans-1,3-Dichloropropene ND :
PAGE 7 RECEIVED: 02/07/86	SAMPLE ID 860130	DATA FILE CONC. FACTOR	SCAN				1			2	42	1					1		t -

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REPORT Analytical Serv Results by Sample

Continued From Above LAB # 86-02-041

SAMPLE ID 860130

FRACTION 02A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/06/86

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in $\frac{10/L}{10}$ unless otherwise specified. Not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram

		N HCL D T	RESULT	N	QN	Z Q		
	NAME EPA Method 602/GC Category	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
Sample	FRACTION 02C TEST CODE GC 602 Date & Time Collected 02/06/86	ANALYST	SCAN					
Results by Sample	CTION O2C e & Time Col	DATE INJECTED <u>02/10/86</u>	RESULT	GN.	GN	GN	737	
	FRA	DATE INJECT	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
RECEIVED: 02/07/86	SAMPLE ID 860130	DATA FILE CONC. FACTOR	SCAN				1	
_ 0<					2 430			_

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LAB # 86-02-041

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SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79). ud/L unless otherwise specified. All results reported in

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REPORT Results by Sample

LAB # 86-02-041

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Continued From Above

SAMPLE 1D 860131

FRACTION 03A TEST CODE GC 601 Date & Time Collected 02/06/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2—trichloroethane and cis—1,3—dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified SCAN = scan number or retention time on chromatogram. All results reported in_

D BY MCL CTED 1	RESULT	N	d	Q	•	
COMPOUNDS DETECTED	COMPOUND	1, 4-Dichlorobenzene	1, 3-Dichlorobenzene	1,2-Dichlorobenzene		
ANALYST	SCAN					
red <u>02/10/86</u>	RESULT	Q	QN	Q	707	
DATE INJECT	CCMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
я я. О				•		
DATA FILE CONC. FACTOR	SCAN		2 433		1	

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PAGE 12 RECEIVED: 02/07/86

SAMPLE 1D 860131

Analytical Serv REPORT Results by Sample

LAB # 86-02-041

FRACTION 03C TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 02/06/86

NOTES AND DEFINITIONS FOR THIS REPORT.

ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in

(Federal Register, 12/3/79). ND = not detected at EPA detection limit method 602,

LAB # 86-02-041	E EPA Method 601/GC Category	NE VERIFIED BY MCL Q COMPOUNDS DETECTED 2	COMPOUND	Trichloroethene 602	Dibromochloromethane * ND	1, 1, 2-Trichloroethane * ND	cis-1, 3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform ND	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene ND	1, 3-Dichlorobenzene ND	1,2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND				
REPORT Sample	FRACTION 04A TEST CODE GC 601 NAME Date & Time Collected 02/06/86	ANALYST INSTRUMENT	SCAN	CI	Dib	1,1,	cis-1,	2-ch		1, 1, 2, 2	Te			-					
Analytical Serv REP Results by Sample	FRACTION 04A Date & Time Co	G DATE INJECTED <u>02/12/86</u>	COMPOUND	Chloromethane ND	Bromomethane ND	Vingl Chloride ND	Chloroethane ND	Methylene Chloride ND	Trichlorofluoromethane ND	1, 1-Dichloroethene ND	1, 1-Dichloroethane ND	trans-1,2-Dichloroethene 360°	Chloraform ND	1,2-Dichloroethane ND	1, 1, 1-Trichloroethane ND	Carbon Tetrachloride ND	Bromodichloromethane ND	1,2-Dichloropropane ND	trans-1,3-Dichloropropene ND :
PAGE 13 RECEIVED: 02/07/86	SAMPLE ID 860132	DATA FILE CONC. FACTOR	SCAN							434	4	tran			1,		-	1	trans-

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Analytical Serv REPORT Results by Sample

LAB # 86-02-041 Continued From Above

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SAMPLE 1D 860132

FRACTION 04A TEST CODE GC 601
Date & Time Collected 02/06/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Registor, 12/3/79). #1, 1, 2, 2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in___

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LAB # 86-02-041

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Analytical Serv

Results by Sample

MCL Ž 밁 일 RESULT COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 602/GC 1, 2-Dichlorobenzene 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene Category COMPOUND RP FRACTION 04C TEST CODE GC 602 Date & Time Collected 02/06/86 ANALYST INSTRUMENT SCAN DATE INJECTED 02/10/86 Ş 2 2 2 RESULT Ethyl Benzene Chlorobenzene COMPOUND Toluene Benzene RECEIVED: 02/07/86 SAMPLE 1D 860132 DATA FILE CONC. FACTOR SCAN 436 2

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

All results reported in $\frac{\log L}{\log L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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	PAGE 16 RECEIVED:	16 VED: 02/07/86	Analytical	al Serv Results by Sample	KEPUKI Sample	LAB # 86-0<-041
	SAMPLI	SAMPLE ID 860134		FRACTION O5A Date & Time Col	In OSA TEST CODE GC 601 Time Collected 02/06/86	601 NAME EPA Method 601/GC 6 Category
	DAT CONC.	DATA FILE G. FACTOR	DATE INJE	INJECTED <u>02/12/86</u>	ANALYST INSTRUMENT	COMPOUNDS DETECTED 1
		SCAN COM	COMPOUND	RESULT	SCAN	COMPOUND RESULT
		1	Chloromethane	thane ND	-	Trichloroethene 401
icki.		1	Bromomethane	thane ND i		Dibromochloromethane * ND
			Vinyl Chlorid	ride ND		1, 1, 2-Trichloroethane * ND
		1	Chloroethane	thane ND		cis-1,3-Dichloropropene * ND
	2	Met	Methylene Chlorid	oride ND		2-Chloroethylvinyl Ether ND
	43	Trichlo	Trichlorofluoromethane	thane ND		Bromoform ND
	7	1,1	1, 1-Dichloroethen	thene ND		1, 1, 2, 2-Tetrachloroethane # ND
		1,1	1,1-Dichloroethane	thane ND		Tetrachloroethylene # ND
		trans-1,2	trans-1,2-Dichloroethene	thene ND :		Chlorobenzene ND
			Chloroform	Sform ND		1, 3-Dichlorobenzene ND
		1.2	1,2-Dichloroethane	thane ND		1, 2-Dichlorobenzene ND
		1,1,1-	1, 1, 1-Trichloraethane	thane ND		1, 4-Dichlorobenzene ND
		Carbo	Carbon Tetrachlorid	oride ND		
		Втома	Bromodichloromethan	thane ND		
		1,2-	,2-Dichloropropane	Down and ND		A P A P P P
		trans-1, 3-	trans-1,3-Dichloropropene	Done ND		

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REPORT Results by Sample Analytical Serv

LAB # 86-02-041 Continued From Above

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SAMPLE 1D 860134

FRACTION 05A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/06/86

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2—trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79) #1, 1, 2, 2—tetrachloroethane and tetrachloroethylene comelute ug/L unless otherwise specified. SCAN a scan number or retention time on chromatogram All results reported in__

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		D BY MCL	RESULT	D	Q	QN		
LAB # 86-02-041	NAME EPA Method 602/GC Category	VERIFIED BY COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1, 3-Dichlorobenzene	1,2-Dichlorobenzene		
REPORT Sample	FRACTION OSC TEST CODE GC 602 Date & Time Collected 02/06/86	ANALYST	SCAN					
Serv Results by Sample	ON OSC Time Col	02/10/86	RESULT	Q	Q Q	Q	Q	
Analytical Se Re	FRACTI Date 8	<u>D</u> DATE INJECTED <u>02/19/86</u>	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene	
PAGE 18 RECEIVED: 02/07/86	SAMPLE ID 860134	DATA FILE CONC. FACTOR	SCAN		2 439			

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

All results reported in $\frac{\text{ug/L}}{\text{unless}}$ otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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PAGE RECE	PAGE 19 RECEIVED: 02/07/86	Analytical	al Serv Results by Sample	REPORT J Sample	LAB # 86-02-041
SAM	SAMPLE ID 860135		RACTION OGA ste & Time Co	FRACTION OGA TEST CODE GC 601 Date & Time Collected 02/06/86	601 NAME EPA Method 601/GC 6 Category
DA CONC.	DATA FILE C. FACTOR	DATE INJEC	INJECTED <u>02/12/86</u>	ANALYST INSTRUMENT	RP VERIFIED BY MCL COMPOUNDS DETECTED 2
	SCAN	COMPOUND	RESULT	SCAN	COMPOUND
		Chloromethane	dN ene	CI	Trichloroethene 3.90
		Bromometha	hane ND		Dibromochloromethane * ND
		Vinyl Chlori	ride ND		1,1,2-Trichloroethane * ND
		Chloroetha	hane ND		cis-1,3-Dichloropropene * ND
		Methylene Chlori	ride ND		2-Chloroethylvinyl Ether ND
2		Trichlorofluorometha	hane ND		Bromoform ND
2 4	-	1, 1-Dichloroether	hene ND		1, 1, 2, 2-Tetrachloroethane # ND
40		1,1-Dichloroetha	hane ND		Tetrachloroethylene # ND
	•	trans-1,2-Dichloroethe	hene 0.78^		Chlorobenzene
	1	Chloraform	Form ND		1, 3-Dichlorobenzene ND
		1,2-Dichloroethane	hane ND		1, 2-Dichlorobenzene ND
		1,1,1-Trichloroetha	hane ND		1, 4-Dichlorobenzene ND
		Carbon Tetrachlori	ride ND		
		Bromodichloromethane	hane ND		
		1, 2-Dichloropropane	pane ND		
		trans—1,3—Dichloroprope	Dene ND		

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Analytical Serv REPORT Results by Sample

LAB # 86-02-041 Continued From Above

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SAMPLE ID <u>860135</u>

FRACTION OGA TEST CODE GC 601 N Date & Time Collected 02/06/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in_

	D BY MCL CTED 0	RESULT	Q.	QN	Q	
TEST CODE GC 602 NAME EPA Method 602/GC ected 02/06/86 Category	MCL VERIFIED BY d COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1, 3-Dichlorobenzene	1,2-Dichlorobenzene	
ACTION OGC TEST CODE GC 602 te & Time Collected 02/06/86	ANALYST	SCAN				
FRACTION OGC Date & Time Col	4JECTED <u>02/11/86</u>	RESULT	QN	Q	ON P	QN
	D DATE INJECT	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene
SAMPLE ID 860135	DATA FILE CONC. FACTOR	SCAN		2 442		

LAB # 86-02-041

REPORT

Analytical Serv REPO Results by Sample

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NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

All results reported in $\frac{uq/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

TEST CODE GC 601 NAME EPA Method 601/GC ected 02/06/86 Category	ANALYST RP COMPOUNDS DETECTED O	N COMPOUND RESULT	Trichloroethene ND	Dibromochloromethane * ND	1, 1, 2-Trichloroethane * ND	cis-1, 3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform ND	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene ND	1, 3-Dichlorobenzene ND	1,2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND				
FRACTION O7A TEST CODE GC 60 Date & Time Collected 02/06/86	DATE INJECTED <u>02/12/86</u> INST	RESULT	Chloromethane ND :	Bromomethane ND	Vinyl Chloride ND	Chloroethane ND	e Chloride ND	promethane ND	loroethene ND	1,1-Dichloroethane ND	loroethene ND	Chloroform ND	loroethane ND	loroethane ND	rachloride ND	oromethane ND	1,2-Dichloropropane ND	oropropene <u>ND</u> i
SAMPLE ID field blank	DATA FILE G DATI	SCAN COMPOUND	Chli	B	Viny	5	Methylene Chlori	Trichlorofluoromethane	1,1-Dichloroeth	1, 1-Dich	trans-1,2-Dichloroethene		1,2-Dichloroetha	1, 1, 1-Trichloroetha	Carbon Tetrachlori	Bromodichlorometha	1, 2-Dich1	trans-1, 3-Dichloropropene
SAMPLE	DATA CONC. F	U)	•	1	ı	1	•	2 4	43	, i	ı	•	1	I	ı	I	ı	•

LAB # 86-02-041

Serv REPORT Results by Sample

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Analytical Serv

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Results by Sample

Continued From Above LAB # 86-02-041

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FRACTION 07A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/06/86

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2—trichloroethane and cis-1,3—dichloropropene co-elute All results reported in <u>ug/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram.

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LAB # 86-02-041

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Serv REPORT Results by Sample Analytical Serv

COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 602/GC Category MCL FRACTION O7B TEST CODE GC 602
Date & Time Collected 02/06/86 INSTRUMENT ANALYST DATE INJECTED 02/11/86 DATA FILE CONC. FACTOR

되

COMPOUND SCAN RESULT COMPOUND SCAN

1, 4-Dichlorobenzene 2 Benzene

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RESULT

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1, 3-Dichlorobenzene

밁

1, 2-Dichlorobenzene

2.19 Toluene

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Ethyl Benzene

Chlorobenzene

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AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram.

ug/L unless otherwise specified. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79)

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	PAGE 25 RECEIVED:	25 (VED: 02/07/86	Analytical	Serv Results by Sample	REPORT Sample	LAB # 86-02-041
	SAMPL	SAMPLE ID trip blank	FRAC	FRACTION OBA Date & Time Coll	In OBA TEST CODE GC 601 N	601 NAME EPA Method 601/GC ecified Category
	CONC.	DATA FILE G. FACTOR	DATE INJECTED	ED <u>02/12/86</u>	ANALYST INSTRUMENT	T MCL VERIFIED BY MCL T COMPOUNDS DETECTED 1
8-80		SCAN COMPOUND	CND	RESULT	SCAN	COMPOUND RESULT
80800			Chloromethane	an an		Trichloroethene ND
NOW.			Bromomethan	en GN		Dibromochloromethane * ND
1505X			Vinyl Chlorid	QN sp		1, 1, 2-Trichloroethane * ND
H.XX		İ	Chloroethan	ON P		cis-1, 3-Dichloropropene * ND
ታር የኢት	2	Methylene	lene Chlorid	de ND		2-Chloroethylvinyl Ether ND
XXXXX	2 4	T Trichlore	Trichlorofluoromethan	ne 3.00 :		Bromoform ND
SN()	46	1.1-1	1-Dichloroethen	an an]	1, 1, 2, 2-Tetrachloroethane # ND
00000		1,1-1	1,1-Dichloroethan	QN eu		Tetrachloroethylene # ND
10000Y		trans-1,2-	2-Dichloroethen	QN eu		Chlorobenzene ND
00000		1	Chloroform	QN E		1, 3-Dichlorabenzene ND
		1,2-1	1,2-Dichloroethan	ND -	İ	1, 2-Dichlorobenzene ND
3000		1, 1, 1-7	1, 1, 1-Trichloroethane	ND		1, 4-Dichlorobenzene ND
36(-3)		Carbon	Tetrachloric	a p		
NO(0		Втомод	Bromodichloromethane	N N		
7000		1,2-0	, 2-Dichloropropane	e U		
2020		trans-1, 3-D	trans-1,3-Dichloropropene	an ND		

PAGE 26 RECEIVED: 02/07/86

Results by Sample Analytical Serv

Continued From Above LAB # 86-02-041

SAMPLE ID trip blank

FRACTION OBA TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2—trichloroethane and cis-1,3—dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). All results reported in <u>ug/L</u> unless otherwise specified. SCAN = scan number or retention time on chromatogram

#1, 1, 2, 2-tetrachloroethane and tetrachloroethylene co-elute.

RECEIVED: 02/07/86 PAGE 27

Results by Sample Analytical Serv

REPORT

LAB # 86-02-041

Second Application secondaries seconderings

SAMPLE ID trip blank

FRACTION OBA TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected not specified Category

DATA FILE CONC. FACTOR

DATE INJECTED 02/12/86

ANALYST INSTRUMENT

된

VERIFIED BY COMPOUNDS DETECTED

되

SCAN

COMPOUND

RESULT

SCAN

RESULT

COMPOUND

욷

1, 4-Dichlorobenzene

ĝ

Benzene

2

448

1, 3-Dichlorobenzene

皇

Toluene

Ethyl Benzene

1, 2-Dichlorobenzene

Chlorobenzene

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram.

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) uq/L unless otherwise specified. All results reported in

	55	8			9 d 2		T 1 0 12	SCHOOL STATE		
	PAGE RECE	PAGE 28 Received:		02/07/86	/86			Analytical Serv NonRepo	v InReported Work	LAB # 86-02-041
	FRAC		N AN	O TE	ST CO	DES	FOR WOR	FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSI	ELSEWHERE	
	018		5	109	010		DUP 602			
100	02B		3	,601	020	••	DUP 602			
60	03B	••	2	109	030		DUP602			
	04B	••	P D	,601	040		DUP602			. • • • • • • • • • • • • • • • • • • •
N.	058		2	DUP601	020		DUP 602			
X	06B		900	601	06D		DUP602			

* Indicates a value less than 5 times the detection limit. CONTACT FRENCH LAB # 86-02-044 Potential error for such low values ranges between PREPARED Radian Analutical Services Footnotes and Comments Duplicate of report of 02/28/86. Austin, Texas 78766 8501 MoPac Blvd (512) 454-4797 REPORT Box 9948 03/01/86 01:31:01 <u>.</u> 0 50 and 100%. β PHONE ATTEN Analytical Serv SAMPLES General Dunamics Plant 4 **DEML Plant 4, Bldg 4** 2/7/86 Neil Robinson REPORT Radian Corporation Fed Ex 321175105 General Dunamics Austin, Texas Austin, Texas 212-027-27-40 Larry French RECEIVED: 02/08/86 PLANT 4 7453 2 CLIENT TAKEN WORK ID TYPE COMPANY FACILITY TRANS ATTEN PAGE 1 INC. .o.a 2 450

Analytical Serv TEST CODES and NAMES used on this report EX 625 Extraction only - 625 BN/A

SAMPLE IDENTIFICATION

860136 H2D

860137 H20

860138 H20 860139 H20 860140 H20

김임의의의의

<u>specific matrix was not within acceptable limits indicating</u>

an interferent present

<u>e Indicates that spike recoveru for this analusis on the</u>

Method 625 Acid Compounds Method 625 Base/Neutrals M625 A

Pesticides & PCBs by GC/MS GCMS Characterization-ABN M625 B MSNS S MS 608

Reagent Blank 625

-044	Sample 05 (entered units	02/10/86		
LAB # 86-02-044	Sample 02 Sample 03 Sample 04 Sample 05 entered units) (entered units)	02/10/86		
REPORT ' Test	Sample 03 (entered units)	02/10/86		
tical Serv RESULTS BY TEST	Sample 02 (entered units)	02/10/86		
Analyti	Sample 01 (entered units)	02/10/86	Sample 06 (entered units)	02/10/86
PAGE 2 RECEIVED: 02/08/86	TEST CODE	EX 625 date complete	TEST CODE	EX_625 date complete

CERCEL POPIPOSE, RELEASE PROLUCIE BOSESES LARGERON (SOSSESSE BOSESSE) DESPENDI Sign Contracts Description

PAGE 3 RECEIVED: 02/08/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-044

SAMPLE 10 860136 H20

FRACTION O1A TEST CODE M625 A
Date & Time Collected 02/07/86

NAME Method 625 Acid Compounds Category

DATA FILE SCU02044COL

DATE EXTRACTED 02/10/86 DATE INJECTED 02/25/86

ANALYST INSTRUMENT

M

VERIFIED BY LAK COMPOUNDS DETECTED

윋

4-nitrophenol

RESULT

COMPOUND

EPA

NPDES SCAN

RESULT

COMPOUND

58A

ᄝ

2, 4, 6-trichlorophenol

39A

∢ n

뮏

2

2, 4-dinitrophenol

2

2-methyl-4,6-dinitrophenol

60A

4

S

2-chlorophenol

64A

4

윋

2, 4-dichlorophenol

9

pentachlorophenol

밁

phenol

CONC. FACTOR

4-chloro-3-methylphenol 21A EPA 22A 24A NPDES SCAN 11A 8

31A 34A **₹ 8**

2-nitrophenol 2, 4-dimethylphenol

10A

月

2

63A

SURROGATE RECOVERIES

57A

6A

COMPOUND SCAN CODE

RESULT

d5-phenol

2-fluorophenol

AS2

354

AS1

480

2, 4, 6—tribromophenol

ASB

1112

37

AS4

d3-phenol

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number or retention time on chromatogram. ug/l unless otherw esults reported in

a specified.

PAGE 4 RECEIVED: 02/08/86 SAMPLE ID 860136 H20

Analytical Serv Recults bu Sa

LAB # 86-02-044 Continued From Above

...

Results by Sample

FRACTION <u>01A</u> TEST CODE <u>M625 A</u> NAME <u>Method 625 Acid Compounds</u> Date & Time Collected <u>02/07/86</u> Category Category

 $m NO~^{22}$ not detected at EPA detection limit method 6.25, (Federal Register, 11/26/84). $\mathsf{SL} = \mathsf{detected}$ in reagent blank; background subtraction not performed

indicates dilution of sample if greater than one (1). J = estimated value; less than method detection limit. CONC. FACTOR:

Minimum detection factor. limits should be multiplied by conc.

THE PARTY OF THE P

NAME Method 625 Base/Neutra	Category
TEST CODE M625 B	Time Collected 02/07/86
FRACTION O1A	Date & Time Co
SAMPLE 1D 860136 H20	

R \$35555	LAB # 86-02-044	B NAME Method 625 Base/Neutrals Category	WJL VERIFIED BY LAK FZ COMPOUNDS DETECTED Z	COMPOUND	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate2	butyl benzyl phthalate ND	di-butyl phthalate 2	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A <u>ND</u>	benzo(a)pyrene <u>ND</u>	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	chrysene A ND	acenaphthylene ND	anthracene B ND	
222		M625 7/86	ANALYST _	EPA	61B	62B	63B	66B	67B	889	869	70B	718	72B	73B	748	75B	768	77B	78B	
	REPORT Sample	Collected 02/C	ANALYST INSTRUMENT	NPDES SCAN	41B	43B	42B	13B 1662	158	268 1322	298	24B	25B	58	6 B	78	9.8	188	28	38	
	lts by	JN <u>01A</u> Time Col	02/10/86 02/24/86	RESULT N	QN	Q	QN	QN	Q N	Q	Q	QN	Q N	Q	Q	Q	Ñ	QN	Q	QN)
SSSE SKKKK PRRESS	Analytical Serv Resu	FRACTION 01A Date & Time (DATE EXTRACTED OF DATE INJECTED OF	COMPOUND	acenaphthene _	benzidine	4-trichlorobenzene	hexachlorobenzene	hexachloroethane _	bis(2-chloroethyl)ether _	2-chloronaphthalene _	1,2-dichlorobenzene _	1,3-dichlorobenzene	4-dichlorobenzene	3,3'dichlorobenzidine _	2,4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	enyl phenyl ether	
	. 9	H20	2CU02044C01	O			1,2,4			bis(2-	ų	1,	1,	1,	, ຕ ຕ	(V	L U	1, 2-		4-chlorophenyl	
	02/08/86	860136	LE 2CUC	EPA	1 3	SB	88	98	128	188	208	25B	26B	278	288	358	368	378	398	408 4	`
8533333 9 2333	PAGE 5 RECEIVED:	SAMPLE ID 860136 H20	DATA FILE CONC. FACTOR	NPDES SCAN	1	4 8	46B	800 0	368	2 4	154	1 SOB	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	100 100 100 100 100 100 100 100 100 100	238	÷ 27B	288	2 29B	31B	178) Al
MACATASA					$\Delta \Delta$				<u> </u>											2.62	<u>8</u>

SECTION STATEMENT SECTION SECT

ය. <i>වැ</i> බැල	PAGE 6		Ana	Analytical Serv	_	REPORT		LAB # 86-02-044
	Ä	02/08/86			Results by Sample	Sample		Continued From Above
	SAMPLE ID 860136 H20	860136	H20	FRACTION Date &	V O1A Time Co	RACTION OIA TEST CODE M625 ste & Time Collected 02/07/86	TEST CODE M625 B ected 02/07/86	NAME Method 625 Base/Neutrals Category
<u>የ</u>	148	418	4-bromophenyl phenyl	nyl ether	QN	88	798	benzo(ghi)perylene ND
6000 0	12B	42B	bis(2-chloroisopropyl)	pyl)ether _	Q.	328	808	fluorene ND
አርር ርዕ	108	43B	bis(2-chloroethoxy)meth	y)methane	2	448	818	phenanthrene B ND
<u> პებტმ</u>	34B	52B	hexachlorobutadi	butadiene	2	19B	828	dibenzo(a,h)anthracene ND
<u> </u>	358	23B	hexachlorocyclopentad	entadiene	g	37B	838	indeno(1,2,3-cd)pyrene ND
2	388	34B	44	isophorone _	2	45B	848	Dullene ND
4	398	558	i e c	naphthalene _	QN			
55 XXX	40B	26B	nit	nitrobenzene	2			
er Erick	SURROGATE	RECOVERIES	RIES					
<u>፲</u> ጵያ፣	SCAN	SCAN CODE	RESULT					

NOTES AND DEFINITIONS FOR THIS REPORT.

d14-terphenyl_

BS3

1480

BS2

831

BS1

809

BS4

d10-biphenyl

d5-nitrobenzene_

2-fluorobiphenyl

NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). ,high concentrations. uq/I unless otherwise specified. benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene comelute All results reported in___

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PAGE 7 RECEIVED: 02/08/86

Analytical Serv Results by Sample

LAB # 86-02-044 Continued From Above

SAMPLE 1D 860136 H20

NAME Method 625 Base/Neutrals FRACTION O1A TEST CODE M625 B
Date & Time Collected 02/07/86

Category

Minimum detection

detected in reagent blank; background subtraction not performed. \mathbf{B} = anthracene and phenanthrene co-elute in high concentrations. J = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

LAB # 86-02-044	ACTION 01A TEST CODE MSNS S NAME GCMS Characterization-ABN te & Time Collected 02/07/86 Category	VERIFIED BY LAK	CONF REF LEVEL CMPD	
LAB	YSNS S NAME GCI	UNITS 44/1	RESULT L	
Serv REPORT Results by Sample	Collected 02/0			
Analytical Serv Results	FRACTION O1 Date & Time	DATE ANALYZED <u>02/25/86</u>		
Ans		DATE	COMPOUND No PCB\$	
PAGE 8 RECEIVED: 02/08/86	SAMPLE 1D 860136 H20	CHRO # 2002044C01	SCAN	

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Section Control	REPORT
27 25505555 257	cal Serv
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	PAGE 9

PAGE 9 RECEIVED: 02/08/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-044

CONTRACTOR OF THE PROPERTY OF

SAMPLE ID 860136 HZU

FRACTION O1A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/07/86

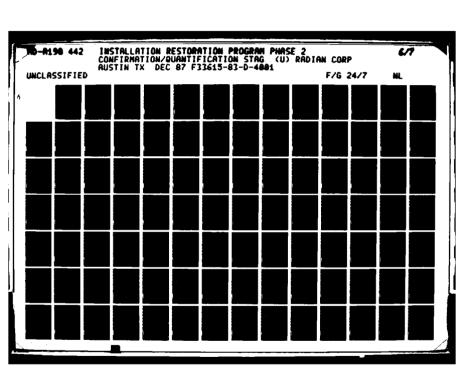
DATA FILE 2CU02044C01 CDNC. FACTOR

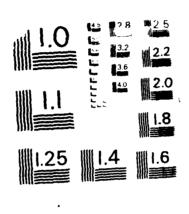
DATE EXTRACTED 02/10/86
DATE INJECTED 02/25/86

ANALYST

VERIFIED BY LAK COMPOUNDS DETECTED 0 MZL

CUMPUONDS DETECTED O	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
	N EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
ol.	NPDES SCAN	22	<u>е</u>	4	90	18P	198	20P	21P	22P	23P	24P	25P	
VK/ K3/ 00	RESULT	QN	QN	N	Q.	QN	QN	QN	QN	QN	QN	QN	QN	QN
da i sacri a lugari a	СОМРОUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
		0	0	0	0	n	0		•		0	0	0	
 	AN EPA	898	90P	916	92P	93P	946	95P	96P	97P	48 <i>6</i>	466	100P	101P
	NPDES SCAN	1 P	10P	49	բ 2 4	ե 158	₽ }	116	12P	14P	14P	15P	16P	1.70





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PAGE 10 RECEIVED: 02/08/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-044 Continued From Above

SAMPLE 1D 860136 H20

FRACTION 01A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/07/86

AND DEFINITIONS FOR THIS REPORT NOTES

SCAN = scan number on chromatogram.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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REPORT Results by Sample Analytical Serv

LAB # 86-02-044

SAMPLE ID 860137 H2D

FRACTION <u>02A</u> TEST CODE <u>M625 A NAME Method 625 Acid Compounds</u> Date & Time Collected <u>02/07/86</u> Category

DATA FILE <u>2CU02044C02</u> CONC. FACTOR

DATE EXTRACTED 02/10/86 DATE INJECTED 02/25/86

ANALYST INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED

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RE	1	1	- 1	- 1	
COMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol
EPA	58A	39A	60A	64A	65A
RESULT NPDES SCAN	7.8	e e	4	9 .	10A
RESULT	QN	QN	Ñ	Q	Ñ
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol	2,4-dimethylphenol
EPA	21A	22A	24A	31A	34A
SCAN					
NPDES	11A	BA	1 4	2A	A A
		2	46	-	n = = ::

SURROGATE RECOVERIES

49

g

2-nitrophenol

RESULT	d5-phenol 59	ophenol 58	ophenol 63	d3-pheno1
COMPOUND	d S	2-fluorophenol	2, 4, 6-tribramophenol	€P
SCAN CODE	480 AS1	353 AS2	1114 AS3	AS4

p specified. SCAN = scan number or retention time on chromatogram ug/l unless otheru AND DEFINITIONS FOR THIS REPORT esults reported in NOTES

RECEIVED: 02/08/86 PAGE 12

Results by Sample Analytical Serv

LAB # 86-02-044 Continued From Above

24.64 Sec. 253

PARTY PARTY OF THE

SAMPLE 1D 860137 H20

FRACTION <u>O2A</u> TEST CODE <u>M625 A</u>
Date & Time Collected <u>O2/07/86</u>

NAME Method 625 Acid Compounds Category

Minimum detection NO st not detected at EPA detection limit method 625, (Federal Register, 11/26/84). indicates dilution of sample if greater than one (1). B^{L} = detected in reagent blank; background subtraction not performed. J = estimated value; less than method detection limit. limits should be multiplied by conc. factor.

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PAGE 13 RECEIVED: 02/08/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-044

	B NAME Method 625 Base/Neutrals Category	WJL VERIFIED BY LAK F2 COMPOUNDS DETECTED 2	COMPOUND	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propulamine ND	bis(2-ethylhexyl)phthalate2	butyl benzyl phthalate ND	di-butyl phthalate 4	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A ND	benzo(a)pyrene ND	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	Chrysene A ND	acenaphthylene ND	anthracens R ND
	TEST CODE M625 B ected 02/07/86	ANALYST	EPA	618	62B	8E9	66B	67B	68 B	869	70B	71B	72B	738	74B	75B	76B	77B	78B
ע	CODE 105/2	ANALYST INSTRUMENT	SCAN				1665		1324										
	TESI 11ecte	-	NPDES	418	43B	42B	138	15B	26B	29B	24B	25B	5B	6B	78	9B	188	2B	8 8
for catorial	FRACTION OZA TEST (Date & Time Collected	<u>02/10/84</u> 02/25/86	RESULT	QN	QN	Q	S.	Q	QV	QN	Q	QV	Q	Q	Q	Q	Q	Q	QV
Z	FRACT	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1,2-dichlorobenzene	1, 3-dichlorobenzene	1,4-dichlorobenzene	3'dichlorobenzidine	2, 4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	henyl phenyl ether
8	, H20	2002044002				1, 2,			b i s (2.	ά	1	+	•	e 'e			1, 2,		4-chlorophenyl
00/00/15/	360137	E 200	EPA	18	5B	88	98	12B	188	208	25B	26B	27B	283	35B	36B	378	39B	408
NCCL1865. V	SAMPLE 10 860137 H20	DATA FILE CONC. FACTOR	NPDES SCAN	18	4B	46B	33B	36B	118	16B	20B	218	22B	23 B	27B	288	29B	31B	178
-		ن ودورودون	 دراند دران	و چرچو	الأدارات	والمراوا	<u> </u> እንዲነት	2	4(32	٠٥٨٥٨	(۱۳۵۸) (۱۳۵۸)	ir-irvi	<u>የ</u> ኒኤኤኒፕ	10.15.51 10.15.51	-0.75N	3,53,53	ሎኔላይ	~*\

A B	PAGE 14 RECEIVED:	02/08/86	Analytic	al Serv Resul	ts by	Serv REPORT Results by Sample		LAB # 86-02-044 Continued From Above	
S.	SAMPLE ID 860137 H20	860137	4	FRACTION <u>OZA</u> Date & Time C	OZA Me Co	RACTION 02A TEST CODE M625 B ate & Time Collected 02/07/86	M625 B 07/86	NAME Method 625 Base/Neutrals Category	1 1
	148	418	4-bromophenyl phenyl et	ther	Q	88	798	benzo(ghi)perylene ND	ద
	12B	42B	bis(2-chloroisopropyl)e	ther	2	328	80B	fluorene ND	
	108	43B	bis(2-chloroethoxy)metl	hane	9	44B	818	phenanthrene B ND	
	34B	52B	hexachlorobutad:	iene	2	198	828	dibenzo(a, h) anthracene ND	
	358	238	hexachlorocyclopentad:	iene	Q	378	838	indeno(1, 2, 3-cd)pyrene ND	
	388	34B	isophor	rone	2	45B	848	pyrene ND	Ωl
2	398	33B	naphtha	lene	2				
4.0	₽ 46	568	nitroben	zene	Q				
S	JRROGATE	RECOVERIES	RIES						

RESULT	d5-nitrobenzene 114	2-fluorobiphenyl 76	d14-terphenyl73	d10-biphenyl
SCAN CODE	608 BS1	832 BS2	1492 BS3	BS4

NOTES AND DEFINITIONS FOR THIS REPORT.

NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). high concentrations. uq/l unless otherwise specified. = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute All results reported in__

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REPORT Results by Sample Analytical Serv

LAB # 86-02-044 Continued From Above

SAMPLE 1D 860137 H20

FRACTION OZA TEST CODE M625 B Date & Time Collected 02/07/86

NAME Method 625 Base/Neutrals Category

Minimum detection BL^- a detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). B = anthracene and phenanthrene co-elute in high concentrations. U m estimated value; less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

> 2 464

LAB # 86-02-044	RACTION OZA TEST CODE MSNS S NAME GCMS Characterization-ABN late & Time Collected 02/07/86	VERIFIED BY LAK	CONF REF LEVEL CMPD	
JRT.	TEST CODE MSNS S NAME	UNITS 44/1	RESULT	
Analytical Serv Results by Sample	FRACTION 02A Date & Time Co	DATE ANALYZED <u>02/25/86</u>	COMPOUND	No PCBs
PAGE 16 RECEIVED: 02/08/86	SAMPLE 1D 860137 H20	CHRD # 2002044602 SAMPLE SIZE 1	SCAN	

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KADIAN	F.	
KADIAN		
KADIAN	B	
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PAGE 17 RECEIVED: 02/08/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-044

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SAMPLE ID 860137 H20

FRACTION OZA TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/07/86

Category

밁

heptachlor epoxide

101P

17P

BY LAK	RESULT	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	QN	Q
VERIFIED BY COMPOUNDS DETECTED	COMPOUND	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene
TCM.													
ANALYST	EPA	102P	103P	104P	103P	106P	107P	108P	109P	110P	1111	112P	113P
Ž	SCAN												
	NPDES	2	မှ	4	B.	18P	199	20P	21P	22P	236	24P	25P
02/10/86 02/25/86	RESULT N	QN	QN	Q	QN	Q	QN	Q	QN	QN	QN	QV	QN
DATE EXTRACTED DATE INJECTED	COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor
E 200020# 4002	EPA	898	90P	916	92P	93P	946	95P	96P	97P	48b	d 66	100P
DATA FILE IC. FACTOR	SCAN												
DAT CONC.	NPDES	1	10P	49	7P	86 96	96	111	12P	14P	14P	15P	16P
	<i>د</i>		R P *		2	460	6	*	.	. ~ . ~ .	. T. L. T A	дығы:	.
		N N	Nivi	706			222	702			7/7/	NE	70.70

55555 65555 BY STANSON STANSON SECTIONS

PAGE 18 RECEIVED: 02/08/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-044 Continued From Above

SAMPLE 1D 860137 H20

860137 H20

FRACTION OZA TEST CODE MS 608 Date & Time Collected 02/07/86

NAME Pesticides & PCBs by GC/MS Category

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number on chromatogram.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

S150000 B

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-044

SAMPLE 1D 860138 H20

FRACTION 03A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/07/86 Category

Category

DATA FILE 200204403

DATE EXTRACTED <u>02/10/86</u>
DATE INJECTED <u>02/25/86</u>

ANALYST INSTRUMENT

M

VERIFIED BY LAK COMPOUNDS DETECTED 밁

RESULT

月

2

밀

COMPOUND	4-nitrophenol	2, 4-dinitrophenol	2-methyl-4, 6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
SCAN					10A 483	
NPDES SCAN	4 4	e G	4 4	4 6	10A	
RESULT	N	ON	QN	ND	N	Q
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2, 4-dimethylphenol	2-nitrophenol
EPA	21A	22A	24A	314	34A	57A
SCAN						
NPDES	11A	8	14	8 8	4	6 A
	<u></u> ያታፍታየ			46		in.

SURROGATE RECOVERIES

윋

2-nitrophenol

COMPOUND	d5-phenol 72	2-fluarophenol 24	2, 4, 6-tribromophenol 73	d3-phenol
CODE	AS1	AS2	AS3	AS4
SCAN CODE	481	352	1115	

specified SCAM = scan number or retention time on chromatogram. ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. esults reported in

PAGE 20 RECEIVED: 02/08/86

REPORT Results by Sample Analytical Serv

F-12-1-12

22/2/22/21\P86651/26

LAB # 86-02-044 Continued From Above

SAMPLE ID 860138 H20

FRACTION 03A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/07/86 Category

Minimum detection ND lpha not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL^- detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). d m estimated value; less than method detection limit. limits should be multiplied by conc. factor.

> 2 469

Z
3
Z

LAB # 86-02-044	B NAME Method 625 Base/Neutrals Category	WJL VERIFIED BY LAK F2 COMPOUNDS DETECTED 2	COMPOUND	N-nitrosodimethylamine ND	N-nitrosodiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate 2	butyl benzyl phthalate ND	di-butyl phthalate 3	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A ND	benzo(a)pyrene ND	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	chrysene A ND	acenaphthylene ND	anthracene R ND	1.0
RT		ANALYST _	SCAN EPA	618	62B	9E9	1666 66B	67B	1325 68B	849	708	718	728	73B	74B	758	768	778	78B	
REPORT Sample	TEST (lected	IN	NPDES SC	41B	438	42B	138 16	158	26B 13	298	248	258	5B	6 B	78	98	183	28	38	
Serv Results by (FRACTION <u>03A</u> TEST CODE <u>M625</u> Date & Time Collected <u>02/07/86</u>	<u>02/10/86</u> <u>02/25/86</u>	RESULT N	Q	Q	Q	QN	Q	QN	Q	Q	Q	Q	ΩN	Q	Q	Q	Q	QN)
Analytical Se Re	FRACTI Date &	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1,4-dichlorobenzene	3'dichlorobenzidine	2, 4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	enyl phenyl ether	
98/86	38 H20	2002044003		18	58	88 1,2,4	9B	83						e e				98)B 4-chlorophenyl	
PAGE 21 RECEIVED: 02/08/86	SAMPLE 1D <u>860138 H20</u>		SCAN EPA	→	u)	w	v	128	188	208	258	268	278	288	358	368	378	398	40B)
PAGE 21 RECEIVE	AMPLE	DATA FILE CONC. FACTOR	NPDES S(13	4 B	46B	338	368	118	168	20B	218	22B	238	27B	288	298	318	17B	
OL OC	ഗ	S	Z						2	47	0									

LAB # 86-02-044 Continued From Above	NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene ND	fluorene	phenanthrene B ND	dibenzo(a, h) anthracene ND	indeno(1,2,3-cd)pyrene ND	Dyrene ND			
JRT	ACTION 03A TEST CODE M625 B te & Time Collected 02/07/86	79B	808	818	828	838	848			
REPORT Sample	TEST (88	32B	44B	198	37B	45B			
Serv REP Results by Sample	N 03A Time Co	2	Q	Q	2	Q	Q	QN	QN	
Analytical	F. Da	4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether	bis(2-chloroethoxy)methane_	hexachlorobutadiene	hexachlorocyclopentadiene	isophorone	naphthalene _	nitrobenzene _	IES
02/08/86	860138	418	42B b	43B	528	538	54B	55B	26B	RECOVERIES
PAGE 22 RECEIVED:	SAMPLE ID 860138 H20	14B	12B	108	348	358	88E 2	86E 47	F04 1	SURROGATE

80	2-fluorobiphenyld14-terphenyld10-biphenyl	BS2 BS3 BS4	1483
110	d5-nitrobenzene	BS1	609
	RESULT	CODE	SCAN CODE

NOTES AND DEFINITIONS FOR THIS REPORT.

140 = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). high concentrations. uq/l unless otherwise specified. = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene comelute All results reported in_



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REPORT Results by Sample Analytical Serv

LAB # 86-02-044 Continued From Above

SAMPLE 10 860138 H2U

NAME Method 625 Base/Neutrals Category

FRACTION 03A TEST CODE M625 B Date & Time Collected 02/07/86

= detected in reagent blank; background subtraction not performed. indicates dilution of sample if greater than one (1). U m estimated value; less than method detection limit.

B = anthracene and phenanthrene co-elute in high concentrations.

limits should be multiplied by conc. factor.

Minimum detection

	02/08
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3AGE	ECE

Results by Sample Analytical Serv

REPORT

LAB # 86-02-044

3/86

SAMPLE 1D 860138 H20

FRACTION <u>03A</u> TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected <u>02/07/86</u> Category

Category

VERIFIED BY LAK

CHRD # 2002044C03

UNITS UG/1

REF CMPD CONF LEVEL

RESULT

DATE ANALYZED 02/25/86

No PCBS

COMPOUND

SCAN

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Analytical Serv REPORT Results by Sample

LAB # 86-02-044

PRODUCE STRUCTURE

SAMPLE 1D 860138 H20

FRACTION 03A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/07/86

DATA FILE 2CU02044C03

DATE EXTRACTED 02/10/86

ANALYST

VERIFIED BY LAK

COMPOUNDS DETECTED 0	ND RESULT	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
WOO TO THE REAL PROPERTY OF THE PROPERTY OF TH	COMPOUND													
	SCAN EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	1118	112P	113P	
d .ot	NPDES	9	e G	44	S.	18P	19P	20P	21P	22P	23P	24P	256	
02/25/86	RESULT	Q	Q	QN	QN	Q	Q	Q	QN	ΩN	Ω	Q	Q Z	Q
E INJECTED		aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	endosulfan	endosulfan	an sulfate	endrin	n aldehyde	heptachlor	or epoxide
DATE	COMPOUND							alpha	beta (endosulfan		endrin	_	heptachlor
	EPA	89P	90P	91P	92P	93P	94P	95P	96P	97P	98P	дьь	100P	101P
FACTOR	SCAN												•	•
CONC	NPDES	4	10P	م 2	47	Ֆ 74	d6	116	12P	14P	14P	15P	16P	17P
CHANGE OF THE SEC		ioniani.	ut, pun nu	.1 % 1 %	1 4.7 4.1	NA NE A	NA KUT N		1 14.71 14.7	HLS N.F	N. P. C.	aut aut n		7 N.7 7 N

200 200 XXX

PAGE 26 RECEIVED: 02/08/86

Analytical Serv Results by Sample

LAB # 86-02-044 Continued From Above

10000000 W 52550000

SAMPLE 1D 860138 H20

FRACTION 03A TEST CODE MS 608 Date & Time Collected 02/07/86

NAME Pesticides & PCBs by GC/MS Category

> ANU DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

CECCOCC MODULATION PROFITED CONTROL DOCUMENTS AND DESCRIPTION OF THE PROFITED CONTROL OF THE PROFITED SOM BROWNING BUS

RECEIVED: 02/08/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-044

\$127555 XXXXXXXX

SAMPLE 10 860139 H20

FRACTION 04A TEST CODE M625 A Date & Time Collected 02/07/86

NAME Method 625 Acid Compounds Category

DATA FILE 20002044004

DATE EXTRACTED 02/10/86 DATE INJECTED 02/25/86

INSTRUMENT **ANALYST**

CONC. FACTOR

M

COMPOUNDS DETECTED VERIFIED BY

> 21A NPDES SCAN 11A

RESULT 2, 4, 6-trichlorophenol COMPOUND

4-chloro-3-methylphenol

22A

8

2

24A

14

31A

ະ ສ **47**6

34A

A B

574

6A

Ø B Q 月

SBA

2

4-nitrophenol

RESULT

COMPOUND

EPA

NPDES SCAN

물

2. 4-dinitrophenol

2

2

pentachlorophenol

2

59A 44

윋

2-chlorophenol

2-methyl-4,6-dinitrophenol **60A**

64A

4

2

2, 4-dichlorophenol

63A

10A

9

2,4-dimethylphenol

윋

2-nitrophenol

SURROGATE RECOVERIES

COMPOUND SCAN CODE

RESULT

d5-phenol

2-fluorophenol

2, 4, 6—tribromophenol

AS3

AS2

358

AS1

482

AS4

d3-phenol

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram. ug/l unless otheru esults reported in

a specified

PAGE 28 RECEIVED: 02/08/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-044 Continued From Above

SAMPLE 1D 860139 H20

FRACTION 04A TEST CODE M625 A
Date & Time Collected 02/07/86

NAME Method 625 Acid Compounds Category

Minimum detection ND $^{
m H}$ not detected at EPA detection limit method 625, (Federal Register, 11/26/84). 3L = detected in reagent blank; background subtraction not performed. CONC. FACTOR: indicates dilution of sample if greater than one (1). U m estimated value; less than method detection limit.

limits should be multiplied by conc. factor.

SOCIONAL PROGRAM SOCIONAL PROGRAM DISPOSAL PROGRAM DE CONTROL DE C ******** * *******

STATE SECTION PRODUCTS ACCOUNT

A CA 윋 2 윋 S 2 2 S S 밁 S 2 2 RESULT 2 NAME Method 625 Base/Neutrals VERIFIED BY COMPOUNDS DETECTED N-nitrosodimethylamine N-nitrosodi-n-propylamine phthalate diethyl phthalate ∢ benzo(a)pyrene acenaphthylene bis(2-ethylhexyl)phthalate phthalate di-butyl phthalate dimethyl phthalate N-nitrosodiphenylamine benzo(a)anthracene benzo(k)fluoranthene chrysene benzo(b)fluoranthene anthracene LAB # 86-02-044 Category butyl benzyl di-n-octyl COMPOUND WJL FZ TEST CODE M625 B Date & Time Collected 02/07/86 66B **67B** 718 **72B 73B** 74B 75B 76B 77B EPA 61B 62B 63B **889** 69B 70B **78B** ANALYST INSTRUMENT 1323 1664 NPDES SCAN REPORT Results by Sample 13B 26B 41B **43B** 42B 15B 29B 24B 25B **9B** 18B **SB 6B 7B** 28 38 DATE EXTRACTED 02/10/84 DATE INJECTED 02/25/86 2 2 2 윋 S 2 2 2 2 2 2 S S 2 2 FRACTION 04A RESULT N Analytical Serv acenaph thene 1, 4-dichlorobenzene 2,6-dinitrotoluene 1, 2-diphenylhydrazine fluoranthene 40B 4-chlorophenyl phenyl ether benzidine 1, 2, 4-trichlorobenzene hexachlorobenzene hexachloroethane bis(2-chloroethyl)ether 2-chloronaphthalene 1,2-dichlorobenzene 1, 3-dichlorobenzene 3'dichlorobenzidine 2,4-dinitrotoluene COMPOUND 2CU02044C04 ė SAMPLE 1D 860139 H20 02/08/86 26B 27B 35B 36B 378 398 EPA 12B 18B 20B 25B 288 18 **SB** 88 98 DATA FILE CONC. FACTOR NPDES SCAN RECEIVED: PAGE 29 21B 23B 27B 28B 29B 31B 17B 1 1 46B 36B 11B 16B 20B 22P 4 B 33B 2 478

MATTER STATES

PAGE 30 RECEIVED: 02/08/86	02/08/	Analytica '86		ts by	Serv REPORT Results by Sample	TAC.	LAB # 86-02-044 Continued From Above
SAMPLE ID 860139 H20	860139	7 H20	FRACTION 04A Date & Time	04A Ime Co]	TEST (ACTION 04A TEST CODE M625 B te & Time Collected 02/07/86	NAME Method 625 Base/Neutrals Category
148	418	4-bromophenyl phenyl	1 ether	QV	88	798	benzo(ghi)perylene ND
128	42B	bis(2-chloroisopropyl)et	1)ether	2 2	328	808	#1uorene ND
108	43B	bis(2-chloroethoxy)meth	nethane	2	44B	818	phenanthrene B ND
348	52B	hexachlorobutadi	tadiene	Q	198	828	dibenzo(a,h)anthracene ND
358	53B	hexachlorocyclopentadi	tadiene	Q	37B	838	indeno(1, 2, 3-cd)pyrene ND
388	24B	isophor	phorone	Q	45B	848	pyrene ND
39B	3.5B	naphthal	thalene	Q			
804 4	26B	nitrobenz	benzene	Q			
URROGATE	RECOVERIES	ERIES					
SCA	SCAN CODE	RESULT					

NOTES AND DEFINITIONS FOR THIS REPORT.

99

d14-terphenyl

BS3

1481

BS2

831

BS4

d10-biphenyl

84

2-fluorabiphenyl

d5-nitrobenzene_

BS1

607

100 = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). high concentrations. ug/l unless otherwise specified. # # benzo(b)fluoranthene and benzo(k)fluoranthene no-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute All results reported in___

Production of the production o

PAGE 31 RECEIVED: 02/08/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-044 Continued From Above

10000

SAMPLE 1D 860139 H20

FRACTION 04A TEST CODE M625 B Date & Time Collected 02/07/86

NAME Method 625 Base/Neutrals Category

Minimum detection

BL = detected in reagent blank; background subtraction not performed. B = anthracene and phenanthrene co-elute in high concentrations.

indicates dilution of sample if greater than one (1). U m estimated value; less than method detection limit. CONC. FACTOR:

limits should be multiplied by conc. factor.

	02/08/86
PAGE 32	RECEIVED:

SAMPLE 10 860139 H20

Analytical Serv REPORT Results by Sample

LAB # 86-02-044

FRACTION 04A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/07/86 Category

UNITS 49/1

VERIFIED BY LAK

CHHD # 2002044CO4

DATE ANALYZED 02/23/86

COMPOUND

SCAN

No PCBS

REF CMPD CONF LEVEL

RESULT

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Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-044

Service and the service of the servi

SAMPLE ID 860139 H20

FRACTION 04A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/07/86

WJL COMPOUNDS DETECTED BY LAK	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND
ANALYST	AN EPA	102P	103P	104P	105P	106P	107P	108P
•	NPDES SCAN	9	e G	4	ę. G	18P	199	20P
<u>02/10/86</u> 02/25/86	RESULT	QN	QN	QN	Q	Q	Q	Q
DATE EXTRACTED DATE INJECTED	самрасив	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan
DATA FILE <u>20002044004</u>	ЕРА	89P	90P	916	92P	93P	94P	95P
DATA FILE CONC. FACTOR	NPDES SCAN	g.	10P	6P	a	ե 48	գ 2	11P
		SS.						

2

PCB-1232

109P

21P

beta endosulfan

96P

12P

97P

14P

98P

14P

466

15P

100P

16P

101P

17P

110P

22P

밁

endosulfan sulfate

111P

23P

2

endrin

112P

24P

밁

endrin aldehyde

113P

25P

2

heptachlor

2

heptachlor epoxide

2

PCB-1248

밁

PCB-1260

윋

PCB-1016

밁

toxaphene

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PAGE 34 RECEIVED: 02/08/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-044 Continued From Above

SAMPLE ID 860139 H20

FRACTION 04A TEST CODE MS 608 Date & Time Collected 02/07/86

NAME Pesticides & PCBs by GC/MS Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79) All results reported in micrograms/liter unless otherwise specified.

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SAMPLE ID 860140 H20 PAGE 35 RECEIVED: 02/08/86

REPORT Analytical Serv Results by Sample

LAB # 86-02-044

DESCRIPTION OF THE PERSON OF T

FRACTION 05A TEST CODE M625 A NAME Method 625 Acid Compounds

Category

Date & Time Collected 02/07/86

INSTRUMENT

DATE EXTRACTED 02/10/86 DATE INJECTED 02/25/86

DATA FILE 20002044005

CONC. FACTOR

T AK VERIFIED BY COMPOUNDS DETECTED

RESULT	Ž	Q	Z	Z	C	
COMPOUND	4-nitrophenol	2,4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	58A	59A	60A	64A	65A	
SCAN					485	
NPDES SCAN	Y A	Ð.	4 4	9A	104	
RESULT	QN	QV	QN	QN	QN	QN
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2-nitrophenol
EPA	21A	22A	24A	31A	34A	57A
NPDES SCAN	114	₹ 2	4	ક્ 84	9	6 A

SURROGATE RECOVERIES

COMPOUND	d5-phenal 98	2-fluorophenol 26	2, 4, 6-tribromophenol 40	d:3-nheno!
SCAN CODE	493 AS1	355 AS2	1115 AS3	AS4

a specified SCAN = scan number or retention time on chromatogram ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. Al esults reported in

PAGE 36 RECEIVED: 02/08/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-044 Continued From Above

SAMPLE ID <u>860140 H20</u>

FRACTION 05A TEST CODE M625 A
Date & Time Collected 02/07/86

NAME Method 625 Acid Compounds Category

NO = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). 5L = detected in reagent blank; background subtraction not performed.

J estimated value; less than method detection limit.

Minimum detection indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

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PAGE 37 RECEIVED: 02/08/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-044

NAME Method 625 Base/Neutrals Category FRACTION OSA TEST CODE M625 B Date & Time Collected 02/07/86 SAMPLE ID 860140 H20

VBVEYOU'S	WJL VERIFIED BY LAK F2 COMPOUNDS DETECTED 2	COMPOUND RESULT	N-nitrosodimethylamine ND	N-nitroscdiphenylamine ND	N-nitrosodi-n-propylamine ND	bis(2-ethylhexyl)phthalate	butyl benzyl phthalate ND	di-butyl phthalate 4	di-n-octyl phthalate ND	diethyl phthalate ND	dimethyl phthalate ND	benzo(a)anthracene A ND	benzo(a)pyrene ND	benzo(b)fluoranthene * ND	benzo(k)fluoranthene * ND	chrysene A ND	acenaphthylene ND	anthracene R ND
2012	ANALYST INSTRUMENT	SCAN EPA	61B	62B	8E9	1666 66B	678	1325 68B	869	708	718	728	738	748	758	768	778	788
	Ä	NPDES	41B	438	42B	138	158	268	298	248	258	38	6 B	7.8	98	188	28	38
	02/10/86 02/25/86	RESULT	QN	Q	QN	QN	Q	Q	Q	Q	QN	2	Q	Q.	Q.	Q	QN	Q
	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1, 4-dichlorobenzene	3,3'dichlorobenzidine	2, 4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	enyl phenyl ether
	2002044005	EPA C	18	58	BB 1,2,4	9.8	12B	18B bis(2-	20B 2-	25B 1,	268 1,	278 1,	288 3,3′	35B	36B	37B 1,2-	39B	40B 4-chlorophenyl
	DATA FILE S	SCAN EF		•,	w	U-		11)či	ณ์	5	તિ	រ	Ř	ř	Ö.	Ř	¥ \
	DATA CONC. F	NPDES 8	18	43	468	33B	368	86 86	168	20B	218	22B	238	278	288	298	31B	178
						2	4	OO										

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o_ o∠	PAGE 38 RECEIVED:	02/08/86		Analytical Serv Resu	lts bi	REPORT J Sample		LAB # 86-02-044 Continued From Above
S	SAMPLE ID <u>860140 H20</u>	860140	H20	FRACTION Date & T	05A ime Co	FRACTION 05A TEST CODE M625 Date & Time Collected 02/07/86	CODE M625 B	NAME Method 625 Base/Neutrals Category
	148	41B	4-bromophenyl phenyl	yl ether	Q	88	798	benzo(ghi)perylene ND
	128	42B	bis(2-chloraisopropyl)e	yl)ether	S	32B	808	fluorene ND
	108	43B	bis(2-chloroethoxy)met)methane	Q	44B	818	phenanthrene B ND
	348	32B	hexachlorobutad	utadiene	Q	198	82B	dibenzo(a, h) anthracene ND
	358	536	hexachlorocyclopentad	ntadiene	2	37B	838	indeno(1,2,3-cd)pyrene ND
2	388	24B	igi	isophorone	9	45B	848	Dillene ND
48	39B	55B	g er	naphthalene	Q			
7	408	26B	nitr	nitrobenzene	2			
ឋ	SIBBOCATE RECOVERIES	いいしいはは	01 01					

SURROGATE RECOVERIES

RESULT	d5-nitrobenzene99	2-fluorobiphenyl <u>84</u>	d14-terphenyl 56	d10-biphenyl
SCAN CODE	610 BS1	833 BS2	1493 BS3	BS4

NOTES AND DEFINITIONS FOR THIS REPORT.

NO = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). , high concentrations. uq/l unless otherwise specified. \star \pm benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute All results reported in

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Analytical Serv REPORT Results by Sample

LAB # 86-02-044 Continued From Above

SAMPLE 1D 860140 H20

50140 H20

FRACTION 05A TEST CODE M625 B

NAME Method 625 Base/Neutrals Category

Minimum detection

Date & Time Collected 02/07/86

= detected in reagent blank; background subtraction not performed B = anthracene and phenanthrene co-elute in high concentrations. J = estimated value; less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

LAB # 86-02-044	FRACTION 05A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/07/86 Category	VERIFIED BY LAK	CONF REF LEVEL CMPD	
REPORT Sample	TEST CODE MSNS S NAME	UNITS 44/1	RESULT	
Analytical Serv Results by Sample	FRACTION 05A Date & Time Co	DATE ANALYZED <u>02/25/86</u>	COMPOUND	No PCBs
PAGE 40 RECEIVED: 02/08/86	SAMPLE ID 860140 H20	CHKD # 2002044C05 SAMPLE SIZE 1	SCAN	

AND THE PERSON OF THE PERSON O

ACTION 05A TEST CODE MS 608 te & Time Collected 02/07/86	ANALYST	ES SCAN EPA	102P	103P	104P	105P	106P	7P	dE de	96	<u>م</u>	6	۵	a .	
<u>-</u> C011		ធី	S.	36	46	er.	18P 1(19P 107P	20P 108P	21P 109P	22P 110P	23P 111P	24P 112P	25P 113P	
FRACTION 05A Date & Time	ATE EXTRACTED <u>02/10/84</u> DATE INJECTED <u>02/25/84</u>	UND RESULT NPDES	aldrin ND	dieldrin ND	chlordane ND	4, 4'-DDT ND	4, 4'-DDE ND	4, 4 '-DDD ND	endosulfan ND	endosulfan ND	sulfate ND	endrin ND	aldehyde ND	heptachlor ND	chlor epoxide ND
SAMPLE ID 860140 H20	DATA FILE <u>2CU02044C05</u> DACONC. FACTOR	NPDES SCAN EPA COMPO	1P 89P	10P 90P	916	426 4L	936 90	9P 94P	11P 95P alpl	12P 96P be	14P 97P endos	14P 98P	15P 99P en(16P 100P	17P 101P heptachlor
	SAMPLE ID 860140 H20	860140 H20 LE 2CU02044C05 D	E ID 860140 H20 TA FILE 2CU02044C05 D FACTOR SCAN EPA COMPG	E ID 860140 H20 TA FILE 2CU02044C05 D FACTOR SCAN EPA COMPO	TA FILE 2CU02044C05 D FACTOR SCAN EPA COMPG 90P	DATA FILE 2CU02044C05 DONC. FACTOR BPP 1P 10P 6P 90P	AMPLE ID 860140 H20 DATA FILE 2CU02044C05 DONC. FACTOR 1P 89P 10P 90P 7P 92P	AMPLE ID 860140 H20 DATA FILE 2CU02044C05 DONG. FACTOR 1P 89P 1OP 90P 5P 91P 7P 92P 99P 93P	DATA FILE 2CU02044C05 DONC. FACTOR B9P 10P 6P 7P 9P 9P 9P 9P 9P 9P 9P	AMPLE 1D 860140 H20 DATA FILE 2CU02044C05 DATA FILE 2CU02044C05 1P 89P 1OP 90P 7P 92P 7P 92P 7P 92P 91P 7P 92P 11P 95P 11P 95P	AMPLE 1D 860140 H20 DATA FILE 2CU02044C05 DATA FILE 2CU02044C05 1P 89P 1OP 90P 6P 91P 7P 92P 7P 92P 9P 94P 11P 95P 11P 95P 11P 95P	AMPLE ID 860140 H20 DATA FILE 2CU02044C05 DATA FILE 2CU02044C05 IP 89P 10P 90P 7P 92P 7P 92P 7P 92P 11P 95P	AMPLE ID 860140 H20 DATA FILE 2CU02044C05 DATA FILE 2CU02044C05 ONC. FACTOR 89P 10P 89P 10P 90P 7P 92P 9P 91P 11P 92P 11P 95P 11P 95P	AMPLE ID 860140 H20 DATA FILE 2CU02044C05 ONC. FACTOR 1P 89P 10P 90P 7P 92P 7P 92P 11P 92P 11P 92P 11P 92P 11P 92P 11P 92P 11P 95P 11P 95P	AMPLE ID 860140 H20 DATA FILE 2CU02044C05 ONC. FACTOR 1P 89P 10P 90P 7P 92P 7P 92P 11P 93P 11P 95P 11P 95P 12P 94P 11P 95P 12P 95P 12P 95P 12P 95P 12P 95P 12P 95P 12P 95P

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SAMPLE 1D 860140 H20

Analytical Serv

REPORT Results by Sample

LAB # 86-02-044 Continued From Above

FRACTION 05A TEST CODE MS 608 Date & Time Collected 02/07/86

NAME Pesticides & PCBs by GC/MS

Category

AND DEFINITIONS FOR THIS REPORT. NOTES SCAN = scan number on chromatogram.

All results reported in micrograms/liter unless otherwise specified

NO = not detected at EPA detection limit method 625, (Federal Register, 12/3/79).

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RECEIVED: 02/08/86

Results by Sample Analytical Serv

LAB # 86-02-044

SAMPLE ID Reagent Blank 625

FRACTION O6A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

DATA FILE 2002038006 CONC. FACTOR

DATE EXTRACTED 02/10/86
DATE INJECTED 02/24/86

INSTRUMENT

F2

VERIFIED BY LAK COMPOUNDS DETECTED

윋

4-nitrophenol

RESULT

COMPOUND

윋

2, 4-dinitrophenol

일

2-methyl-4,6-dinitrophenol

일

pentachlorophenol

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phenol

4	•	_	٠,	_	_	
EPA	58A	59A	60A	64A	65A	
SCAN						
NPDES SCAN	7A	ų,	4 4	9.	10A	
RESULT	Q	Q	N	Q	Q	QN
COMPOUND	2, 4, 6-trichlorophenol ND	4-chloro-3-methylphenol	2-chlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2-nitrophenol ND
EPA	21A	22A	24A	314	344	57A
NPDES SCAN EPA						
NPDES	114	89 A	4	2 A	9A	6 A
<u>ريندو</u> و -	المتكلة		4	92 ~~		\$4.50
	<u> </u>		4.2	0.0	عنعت	كمك

SURROGATE RECOVERIES

	d3-pheno1	AS4	
39	2, 4, 6-tribromophenol	AS3	1114
100	2-fluorophenol	A52	350
70	d5-phenol	AS1	477
RESULT	COMPOUND	CODE	SCAN CODE

e specified. SCAN = scan number or retention time on chromatogram ug/l unless otherw NOTES AND DEFINITIONS FOR THIS REPORT. esults reported in

RECEIVED: 02/08/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-044 Continued From Above

SAMPLE ID Reagent Blank 625

FRACTION OGA TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

Minimum detection

NO = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

BL = detected in reagent blank; background subtraction not performed

indicates dilution of sample if greater than one (1). J = estimated value; less than method detection limit. linits should be multiplied by conc. factor. CONC. FACTOR:

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Analytical Serv REPORT Results by Sample

LAB # 86-02-044

FRACTION 06A TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category SAMPLE ID Reagent Blank 625

ובר יבה ווחי שהברדודה	ANALYST WJL COMPOUNDS DETECTED O	DES SCAN EPA COMPOUND RESULT	41B 61B N-nitrosodimethylamine ND	438 628 N-nitrosodiphenylamine ND	428 63B N-nitrosodi-n-propylamine ND	138 668 bis(2-ethylhexyl)phthalate ND	158 678 butyl benzyl phthalate ND	26B di-butyl phthalate ND	29B 69B di-n-octyl phthalate ND	24B 70B diethyl phthalate ND	25B 71B dimethyl phthalate ND	58 72B benzo(a)anthracene A ND	68 738 benzo(a)pyrene ND	78 74B benzo(b)fluoranthene * ND	98 758 benzo(k)fluoranthene * ND	18B 76B chrysene A <u>ND</u>	2B 77B acenaphthylene ND	3B 78B anthracene R ND
Ì	ANALYST WJL INSTRUMENT F2	NPDES SCAN EPA	61B	628	8E9	899	67B butyl	889	698	70B	71B	728	738	74B	75B		77B	78B
∪ ≣ 1 - 5	02/10/86 02/24/86	RESULT	Z	Z	2	Z		Z	Z	Z	Z	Z	Z	Z		Z	Z	
13 DA	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	3,3'dichlorobenzidine	2,4-dinitrotoluene	2,6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	henyl phenyl ether
	2EB020~BC06	∢	18	5B	BB 1,2,	98	83							38	g		82	40B 4-chlorophenyl
	DATA FILE 2	SCAN EPA		(1)	w	v	128	188	208	258	265	278	288	358	368	378	398	, 4C
	DATA CONC. F	NPDES S	18	48	468	338	368	118	168	20B	218	22B	238	27B	288	298	318	17B
	J	۷.						2	49	4								

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PAGE 46 RECEIVED: 02/08/86	02/08/	. 86	Analytical Serv Resu	Serv REP Results by Sample	REPORT Sample		LAB # 86-02-044 Continued From Above
SAMPLE ID Reagent Blank 625	Reagen	it Blank (FRACTION OGA TEST CODE Date & Time Collected not	TEST CODE M625 B lected not specif	M625 B N specified	NAME Method 625 Base/Neutrals ed Category
148	41B	4-bromophenyl	phenyl phenyl ether	Q	88	79B	benzo(ghi)perylene ND
128	42B	bis(2-ch]	bis(2-chloroisopropyl)ether	QN	32B	808	fluorene ND
108	43B	bis(2-c)	bis(2-chloroethoxy)methane	QN	44B	818	phenanthrene B ND
348	528	-	hexachlorobutadiene	QN	198	828	dibenzo(a,h)anthracene ND
358	538	hexach]	hexachlorocyclopentadiene	Q	37B	838	indeno(1,2,3-cd)pyrene ND
388	543		isophorone	Q	45B	848	pyrene ND
398	55B		naphthalene	Q			
40B	56B		nitrobenzene	QN			
STABLICOTE STABLIS		10.00					

SURROGATE RECOVERIES

RESULT	d5-nitrobenzene73	2-fluorabiphenyl 41	d14-terphenyl 47	d10-biphenyl
CODE	351	BS2	BS3	BS4
SCAN CODE	909	832	1480	
1	2 4	195	5	

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). , high concentrations uq/l unless otherwise specified. * = benzo(b)fluoranthene and benzo(k)fluoranthene co~elute. SCAN = scan number or retention time on chromatogram. enzo(a)anthracene and chrysene co-elute All results reported in_

See Section

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Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-044 Continued From Above

SAMPLE ID Reagent Blank 625

Minimum detection

FRACTION <u>O6A</u> TEST CODE <u>M625 B</u> NAME <u>Method 625 Base/Neutrals</u>
Date & Time Collected not specified Category

= detected in reagent blank; background subtraction not performed $B\ =\ {\sf anthrace}$ ne and phenanthrene co-elute in high concentrations.

indicates dilution of sample if greater than one (1). J = estimated value; less than method detection limit. limits should be multiplied by conc. factor.

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LAB # 86-02-044	FRACTION O6A TEST CODE MSNS S NAME GCMS Characterization Date & Time Collected not specified Category	VERIFIED I	CONF REF I LEVEL CMPD	
REPORT Sample	TEST CODE MSNS S llected not specifi	UNITS 44/1	RESULT	
nalytical Serv Results by Sample	FRACTION O6A Date & Time Co	TE ANALYZED <u>02/24/8</u> 6		
Ans	625	DA	COMPOUND	No PCBs
PAGE 48 RECEIVED: 02/08/86	SAMPLE ID Reagent Blank 625	CHRO # 2802038CO6 SAMPLE SIZE 1	SCAN	

BY LAK

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Analytical Serv REPORT Results by Sample

LAB # 86-02-044

REALEST ESSESSES, RECERCION DESCRIPTION DE CONTROL PROPERTE DE CONTROL DE CON

SAMPLE ID Reagent Blank 625

FRACTION 06A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified

Category

ANALYST DATE EXTRACTED 02/10/86 DATE INJECTED 02/24/86 DATA FILE <u>ZEBOZO3BCO6</u> CONC. FACTOR

VERIFIED BY LAK COMPOUNDS DETECTED ____

RESULT	Q	QN.	QN	QN .	Q	Q	N N	QN	N	Q	N	S		
	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene		
COMPOUND														
EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	1116	112P	113P		
NPDES SCAN	d)	æ e	44 4	5P	18P	19P	20P	21P	22P	23P	24P	25P		
RESULT	QN	N	N	ND	Q	Q	Q	Q	N	Q	QN	QN	N	
	aldrin	dieldrin	chlordane .	4, 4'-DDT	4, 4'-DDE	4, 4'-000	endosulfan	endosulfan	fan sulfate	endrin	in aldehyde	heptachlor .	lor epoxide	
COMPOUND							alpha	beta	endosulfan		endrin		heptachlor	
EPA	89P	90P	916	92P	93P	94P	95P	96P	97 <i>P</i>	d86	466	100P	101P	
NPDES SCAN														
S	1	10P	P	7P	æ	96	1 1 P	12P	14P	14P	15P	16P	17P	

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REPORT Results by Sample Analytical Serv

LAB # 86-02-044 Continued From Above

SAMPLE ID Reagent Blank 625

FRACTION OGA TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified

Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

Serv REPORT NonReported Work Analytical Serv

LAB # 86-02-044

AND RECEIPED - REPRESENT CONSIDER MINISTERS - STATES - STATES - MAINTER ALBERT

DUP_NS DUP_NS DUP_NS DUP_NS

02B 03B 04B 05B

didizi Baananaa, anananga anananga dizididizia di didininga dananana biringga bisangan kananga biringga biring

LAB # 86-02-047

REPORT

Analytical Serv

PAGE

PREPARED Radian Analytical Services Onknown compound eluting here. Austin, Texas 78766 8501 MoPac Blvd (512) 454-4797 P. O. Box 9948 04/01/86 17:16:52 -01, -02, -03, -04 PHONE ATTEN Carswell AFB (Gen. Dunamics) SAMPLES ATTEN Larry Fren h groundwater RECEIVED: 02/08/86 REPORT Radian Plant 4 Austin PLANT4 Fed Ex AM, NR COMPANY FACILITY WORK ID TAKEN TRANS CLIENT

* Indicates a value less than 5 times the detection limit. CONTACT CONDVER Second column confirmation performed for EPA 601 Footnotes and Comments

specific matrix was not within acceptable limits indicating <u>© Indicates that spike recovery for this analysis on the</u> an interferent present

Potential error for such low values ranges between

50 and 100%

under separate cover

INVOICE

212-027-27-40

TYPE

IDENTIFICATION SAMPLE

field blank trip blank 860136 860138 860139 850140 860137

Analyti	Analytical Serv TEST CODES and NAMES used on this report	ÆS used	5	this	report
AG E	Silver, ICPES				
AS GA	Arsenic, low level				
BA E	Barium, ICPES				
CD E	Cadmium, ICPES				
CR E	Chromium, ICPES				
DC3020					
1)66010					
GC 501					
505 J					
HC_IR_	Hydrocarbons				
HG CA	Mercuru, Cold Vapor				
ONG IR					
PB GA	Lead, low level				
SE GA	Selenium, low level				

722.cd	
ZO-TANON CA	

PAGE 2 RECEIVED: 02/08/86

Analytical Serv REPORT RESULTS BY TEST

LAB # 86-02-047

TEST CODE	Sample 01 (entered units)	Sample 02 (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
	0.006*	0.007*	0.004*	0.015	0.019
	<. 005	<. 005	<. 005	0.075	0.007*
	0.099	0.15	0.10	0.52	0.077
	<. 002	<. 002	<.002	<. 002	<.002
	0.018*	0.042	0.007*	0.031	0.050
1	02/12/86	02/12/86	02/12/86	02/12/86	02/12/86
DG6010	02/20/86	02/20/86	02/50/86	02/20/86	02/50/86
complete	(1.0				<1.0
	<.0002	0.0002*	0.0002*	<.0002	₹ 0005
	(1.0				(1.0
	0.025	0.018	0.004*	0.008*	0.20
	€: 003	€003	₹. 003	€003	₹ 003

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CORPORATION	C

RECEIVED: 02/08/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-047

SAMPLE 1D 860136

NAME EPA Method 601/60

5 VERIFIED BY COMPOUNDS DETECTED Category 원 FRACTION O1A TEST CODE GC 601 Date & Time Collected 02/07/86 ANALYST INSTRUMENT DATE INJECTED 02/12/86 일 RESULT Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1, 1-Dichloroethane 1, 1-Dichloroethene COMPOUND DATA FILE CONC. FACTOR SCAN 503

	SCAN COMPOUND Trichloroethene Dibromochloromethane *	7211
Q Q	cis-1,3-Dichloropropene * 2-Chloroethylvinyl Ether	Q Q
	Bromoform 1,1,2,2-Tetrachloroethane #	QN QN
Q	Tetrachloroethylene #	QV
2882 ND	. Chlorobenzene 1,3-Dichlorobenzene	ON ON
Q C	1,2-Dichlorobenzene	

일

trans-1, 3-Dichloropropene

밁

1. 2-Dichloropropane

2

Carbon Tetrachloride

1, 1, 1-Trichloroethane

1, 2-Dichloroethane

Chloroform

trans-1, 2-Dichloroethene

밁

Bromodichloromethane

PAGE 4 RECEIVED: 02/08/86

Results by Sample Analytical Serv

LAB # 86-02-047 Continued From Above

SAMPLE ID 860136

FRACTION OIA TEST CODE GC 601 Date & Time Collected 02/07/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. uq/L. unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in_

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PAGE 5 RECEIVED: 02/08/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-047

CONTRACT CONTRACT CONTRACT CONTRACT

SAMPLE ID 860136

FRACTION OIC TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 02/07/86

Category

DATA FILE CONC. FACTOR

DATE INJECTED 02/11/86

ANALYST

MCL

COMPOUNDS DETECTED VERIFIED BY

SCAN

INSTRUMENT

RESULT

CUMPOUND

RESULT

SCAN

COMPOUND

g

1, 4-Dichlorobenzene

g

Benzene

2

Toluene

1, 3-Dichlorobenzene

2

Ethyl Benzene

S

1, 2-Dichlorobenzene

2

Chlurobenzene

S

AND DEFINITIONS FOR THIS REPORT. NOTES

ug/l unless otherwise specified SCAN = scan number or retention time on chromatogram. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/39)

DAT SAMPLI 2 506

6 IVED: 02/08/86	Analytical Serv Resu	Serv REPI Results by Sample	REPORT Sample	LAB # 86-02-047
LE 10 860137	FRACTION Date &	JN <u>OZA</u> Time Col	FRACTION OZA TEST CODE GC 601 Date & Time Collected 02/07/86	NAME EPA Method 601/6C Category
ATA FILE	G DATE INJECTED 02/12/86	22/12/86	ANALYST	RP VERIFIED BY MCL COMPOUNDS DETECTED 2
SCAN	COMPOUND	RESULT	SCAN	COMPOUND
	Chloromethane	Q	2	Trichloroethene 36.6
	Bromomethane	Q		Dibromochloromethane * ND
	Vinyl Chloride	QN		1, 1, 2-Trichloroethane * ND
	Chloroethane	QN		cis-1,3-Dichloropropene * ND
	Methylene Chloride	QN		2-Chloroethylvinyl Ether ND
	Trichlorofluoromethane	QN		Bromoform ND
	1,1-Dichloroethene	QN	1,	1,1,2,2-Tetrachloroethane # ND
	1, 1-Dichloroethane	Q		Tetrachloroethylene # ND
1 tı	trans-1, 2-Dichloroethene	54.2		Chlorobenzene ND
	Chloroform	QN		1, 3-Dichlorobenzene ND
	1,2-Dichloroethane	QN		1,2-Dichlorobenzene NB
	1, 1, 1-Trichloroethane	QN		1, 4-Dichlorobenzene ND
1	Carbon Tetrachloride	Q		
	Bromodichloromethane	Q		

2

trans-1, 3-Dichloropropene

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1, 2-Dichloropropane

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RECEIVED: 02/08/86 PAGE 7

Analytical Serv REPORT Results by Sample

LAB # 86-02-047 Continued From Above

SAMPLE 1D 860137

FRACTION 02A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/07/86

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in_

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LAB # 86-02-047

REPORT

Analytical Serv

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Results by Sample

RESULT COMPOUNDS DETECTED VERIFIED BY NAME EPA Method 602/60 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene 1,2-Dichlorobenzene Category COMPOUND RP FRACTION O2C TEST CODE GC 602 Date & Time Collected 02/07/86 ANALYST INSTRUMENT SCAN DATE INJECTED 02/11/86 Q S Q RESULT Ethyl Benzene COMPOUND Toluene Benzene SAMPLE 1D 860137 DATA FILE CONC FACTOR SCAN 508 2

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79). ug/L unless otherwise specified SCAN = scan number or retention time on chromatogram. AND DEFINITIONS FOR THIS REPORT All results reported in NOTES

S

Chlorobenzene

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2

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RECEIVED: 02/08/85

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-047

NAME EPA Method 601/60 TEST CODE GC 601 FRACTION 03A SAMPLE ID 860138

			Date &	Date & Time Collected 02/07/86	ed 02/07/8	9	Category	
DA1 CONC.	DATA FILE	B	DATE INJECTED 02/12/86		ANALYST INSTRUMENT	RP b	VERIFIED BY COMPOUNDS DETECTED	ECTED 1
	SCAN	COMPOUND	UND	RESULT	SCAN	ö	COMPOUND	RESULT
			Chloromethane	Q			Trichloroethene	ne ND
			Bromomethane	QN		Dibrom	Dibromochloromethane	dN *
	İ	>	Vinyl Chloride	Q	}	1,1,2-T	1, 1, 2-Trichloroethane	WD *
			Chloroethane	Q	1	cis-1, 3-B;	cis-1, 3-Dichloropropene	MD *
		Methy	Methylene Chloride	QN	-	2-Ch10r	2-Chloroethylvinyl Ether	er ND
2		Trichlorofluorome	ofluoromethane	QN			Bromoform	GN WJ
2 5		1,1-6	1, 1-Dichloroethene	N		1, 1, 2, 2-Teti	1,1,2,2-Tetrachloroethane	UN #
509		1,1-0	1, 1-Dichloroethane	QN		Tetra	Tetrachloroethylene	# WD
1	1	trans-1,2-Dichloroe)ich loroethene	63459~			Chlorobenzene	- ND
			Chloroform	QN		-	1,3-Dichlorobenzene	JA J
		1,2-0	1,2-Dichloroethane	QN		, wa	1,2-Bichlorobenzene	Ne ND
		1, 1, 1-Tr	1, 1, 1-Trichloroethane	ND		, , , , , , , , , , , , , , , , , , ,	1,4-Dichlorobenzene	ar ND
		Carbon	Carbon Tetrachloride	QN				

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Bromodichloromethane

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1,2-Dichloropropane

2

trans-1,3-Dichloropropene

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PAGE 10 RECEIVED: 02/08/86

Results by Sample Analytical Serv

LAB # 86-02-047 Continued From Above

SAMPLE ID 860138

FRACTION 03A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/07/86

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN - scan number or retention time on chromatogram. All results reported in__

RECEIVED: 02/08/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-047

SAMPLE 1D 860138

FRACTION 03C TEST CODE GC 602 Date & Time Collected 02/07/86

NAME EPA Method 602/60

Category

DATA FILE CONC. FACTOR

DATE INJECTED 02/11/86

ANALYST INSTRUMENT

RP

MCL VERIFIED BY COMPOUNDS DETECTED

SCAN

COMPOUND

RESULT

SCAN

RESULT

COMPOUND

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1, 4-Dichlorobenzene

Q

Benzene

1, 3-Dichlorobenzene

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Ethyl Benzene

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Toluene

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1, 2-Dichlorobenzene

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Chlurobenzene

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AND DEFINITIONS FOR THIS REPORT. NOTES

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) ug/L unless otherwise specified SCAN = scan number or retention time on chromatogram. All results reported in

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Analytical Serv

LAB # 86-02-047

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RESULT

COMPOUNDS DETECTED VERIFIED BY Trichloroethene Bromoform Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene 2-Chloroethylvinyl Ether 1, 4-Dichlorobenzene NAME EPA Method 601/GC Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene 1, 1, 2, 2-Tetrachloroethane **Tetrachloroethylene** Category COMPOUND TEST CODE GC 601 FRACTION 04A TEST CODE GC 60 Date & Time Collected 02/07/86 ANALYST INSTRUMENT SCAN Serv REPORT Results by Sample DATE INJECTED 02/13/86 밁 밁 2 2 Ž Ž S 2 9 밁 2 밁 S S 2 1054 RESULT trans-1,2-Dichloroethene Chloromethane Bromomethane Vinyl Chloride Chloroethane Chloroform trans-1,3-Dichloropropene Methylene Chloride Trichlorefluoromethane 1, 1-Dichloroethene 1, 1-Dichloroethane 1.2-Dichloropropane 1,2-Dichloroethane 1, 1, 1-Trichloroethane Carbon Tetrachloride Bromodichloromethane COMPOUND RECEIVED: 02/08/86 SAMPLE ID 860139 DATA FILE CONC. FACTOR SCAN 512

PAGE 13 RECEIVED: 02/08/86

Results by Sample Analytical Serv

LAB # 86-02-047 Continued From Above

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SAMPLE 1D 860139

FRACTION 04A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/07/86

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropene co-elute All results reported in $\frac{19/L}{L}$ unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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RECEIVED: 02/08/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-047

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SAMPLE 1D 860139

FRACTION 04C TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 02/07/86

ANALYST

RP

VERIFIED BY COMPOUNDS DETECTED

DATA FILE CONC. FACTOR

DATE INJECTED 02/11/86

INSTRUMENT

된

SCAN

COMPOUND

RESULT

SCAN

COMPOUND

RESULT

2

1, 4-Dichlorobenzene

Benzene

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1, 3-Dichlorobenzene

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Toluene

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Ethyl Benzene

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1, 2-Dichlorobenzene

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Chlurabenzene

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AND DEFINITIONS FOR THIS REPORT NOTES

SCAN = scan number or retention time on chromatogram

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79) ug/L unless otherwise specified All results reported in

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VERIFIED BY COMPOUNDS DETECTED Bromoform Trichloroethene 1,4-Dichlorobenzene 2-Chloroethylvinyl Ether Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene FRACIION 05A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/07/86 1, 1, 2, 2-Tetrachloroethane Dibromochloromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene Tetrachloroethylene LAB # 86-02-047 COMPOUND ANALYST INSTRUMENT SCAN REPORT Results by Sample DATE INJECTED 02/13/86 2 2 2 2 9 Q 일 일 밁 S 2 RESULT 2 S Analytical Serv Chloromethane Bromomethane Chloroform Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1,2-Dichloroethane 1, 1, 1-Trichloroethane 1, 1-Dichloroethene 1, 1-Dichloroethane trans-1,2-Dichloroethene Carbon Tetrachloride COMPOUND 0 RECEIVED: 02/08/86 SAMPLE ID 860140 DATA FILE FACTOR SCAN CONC 515

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RESULT

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trans-1, 3-Dichloropropene

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Bromodichloromethane

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1,2-Dichloropropane

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RECEIVED: 02/08/86 PAGE 16

REPORT Results by Sample Analytical Serv

LAB # 86-02-047 Continued From Above

SAMPLE ID 860140

FRACTION 05A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/07/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2-tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results renorted in

¥			TED 1	RESULT	Q	ON	Q		
	LAB # 86-02-047	FRACTION 05C TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 02/07/86	VERIFIED BY COMPOUNDS DETECTED	COMPDUND	1,4-Bichlorobenzene	1, 3-Bichlorobenzene	1,2-Dichlorobenzene		
	REPORT Sample	TEST CODE GC 602 lected 02/07/86	ANALYST	SCAN					
	l Serv Results by Sample	ACTION 05C te & Time Col	DATE INJECTED 02/11/86	RESULT	QN	3.48	Q	QN	
20:-	Analytical	FR	<u>D</u> DATE INJEC	COMPOUND	Benzene	Tolvene	Ethyl Benzene	Chlarobenzene	
NOLVERON	PAGE 17 RECEIVED: 02/08/86	SAMPLE ID 860140	DATA FILE CONC. FACTOR	SCAN		T 1 P9			

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NOTES AND DEFINITIONS FOR THIS REPORT.

ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

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	PAGE 18 RECEIVE	PAGE 18 RECEIVED: 02/08/86	Analytical Serv Results by Sample	REPORT J Sample	LAB # 86-02-047
	SAMPL	SAMPLE ID field blank	FRACTION O6A Date & Time Co	IN OGA TEST CODE GC 601 N Time Collected not specified	601 NAME EPA Method 601/GC ecified Category
	CONC	DATA FILE C. FACTOR	DATE INJECTED 02/13/86	ANALYST INSTRUMENT	T RP VERIFIED BY MCL
		SCAN	COMPOUND RESULT	SCAN	COMPOUND RESULT
		***************************************	Chloromethane ND		Trichloroethene ND
			Bromamethane ND		Dibromochloromethane * ND
			Vinyl Chloride ND		1, 1, 2-Trichloroethane * ND
			Chloroethane ND		cis-1,3-Dichloropropene * ND
	2	Σ	Methylene Chloride ND		2-Chloroethylvinyl Ether ND
	51	Trich	Trichlorofluoromethane ND		Bromoform ND
	18	-	1,1-Dichloroethene ND		1,1,2,2-Tetrachloroethane # ND
~ (`		-	1, 1-Dichloroethane ND		Tetrachloroethylene # ND
		rans-1	rans-1,2-Dichloroethene ND		Chlorobenzene ND
26			Chlaraform ND		1, 3-Dichlorobenzene NB
			1,2-Dichloroethane ND		1, 2-Dichlorobenzene ND
XX		1, 1,	1, 1, 1-Trichloraethane ND		1, 4-Dichlorobenzene ND
3/3		Car	Carbon Tetrachloride ND		
		Bro	Bromodichloromethane ND		
		1,1	1,2-Dichloropropane ND		Y- 1-

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trans-1,3-Dichloropropene

PAGE 19 RECEIVED: 02/08/86

Analytical Serv Results by Sample

LAB # 86-02-047 Continued From Above

SAMPLE ID field blank

FRACTION 06A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in <u>uq/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram

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LAB # 86-02-047

REPORT

Analytical Serv

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VERIFIED BY COMPOUNDS DETECTED FRACTION 06B TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected not specified 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene Category COMPOUND R P ANALYST INSTRUMENT SCAN Results by Sample DATE INJECTED 02/11/86 2 4.06 2 N RESULT Ethyl Benzene Chlorobenzene COMPOUND Benzene Toluene SAMPLE ID field blank RECEIVED: 02/08/86 DATA FILE FACTOR SCAN CONC 520

2

RESULT

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SCAN = scan number or retention time on chromatogram. AND DEFINITIONS FOR THIS REPORT All results reported in

NOTES

ug/l. unless otherwise specified

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79)

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RECEIVED: 02/08/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-047

SAMPLE ID trip blank

FRACTION 07A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected not specified

DATA FILE CONC. FACTOR

DATE INJECTED 02/12/86

INSTRUMENT

COMPOUND 3

COMPOUNDS DETECTED VERIFIED BY

SCAN

COMPOUND

RESULT

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Chloromethane

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Bromomethane

2

Vinyl Chloride

2

Chloroethane

2

Methylene Chloride

2.75

Trichlorofluoromethane

2

1, 1-Dichloroethene

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1,1-Dichloroethane

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trans-1,2-Dichloroethene

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Chloroform

2

1,2-Dichloroethane

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Carbon Tetrachloride

1, 1, 1-Trichloroethane

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Bromodichloromethane

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1.2-Dichloropropane

2

trans-1, 3-Dichloropropene

SCAN

Trichloroethene **Dibromochloromethane**

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RESULT

N

1, 1, 2-Trichloroethane

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2 cis-1, 3-Dichloropropene

밀 2-Chloroethylvinyl Ether

1, 1, 2, 2-Tetrachloroethane

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Bromoform

밀 Tetrachloroethylene Ž Chlorobenzene

밀 1, 3-Dichlorobenzene

Ž 1, 2-Dichlorobenzene

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1, 4-Dichlorobenzene

521

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PAGE 22 RECEIVED: 02/08/86

Analytical Serv REPO Results by Sample

LAB # 86-02-047 Continued From Above

POSSESSOR REPORTED TRANSPORT RESERVE

SAMPLE ID trip blank

FRACTION O7A TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. _mq/L unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in__

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PAGE 23 RECEIVED: 02/08/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-047

SAMPLE ID trip blank

FRACIION O7A TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected not specified Category

DATA FILE CONC FACTOR

DATE INJECTED 02/12/86

ANALYST INSTRUMENT

VERIFIED BY COMPOUNDS DETECTED

30

SCAN

COMPOUND

RESULT

SCAN

COMPOUND

RESULT

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Benzene

1, 4-Dichlorobenzene

1, 3-Dichlorobenzene

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Ethyl Benzene

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Toluene

1, 2-Dichlorobenzene

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Chlarobenzene

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AND DEFINITIONS FOR THIS REPORT NOTES

ug/L unless otherwise specified SCAN = scan number or retention time on chromatogram. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79)

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Recel Description (1999) Received Bestering Bestering Bestering Bestering Bestering

Analytical Serv

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Serv REPORT NonReported Work

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE BUP NS DUP_NS 01H 05H DUP 602 DUP 602 DUP 602 DUP 602 01D 02D aeo 04D 05D PAGE 24 RECEIVED: 02/08/86 DUP 601 DUP 601 DUP 601 DUP 601 01B 02B 03B 04B 05B

REPORT Radian Corporation Austin, Texas Larry French RECEIVED: 02/11/86

Serv REPORT 09/08/86 12: 02: 12 Analytical Serv

LAB # 86-02-058

PREPARED Radian Analutical Services

ATTEN

SAMPLES General Dunamics PLANT 4 CL IENT COMPANY

OEHL Plant 4, Bldg 4 Austin, Texas FACILITY

General Dunamics Ft. Worth Federal 321175142 212-027-27-40 7454 2/10/86 H20 TYPE TRANS WORK ID TAKEN INS.

Duplicate of report of 02/28/86.

Footnotes and Comments

CONTACT FRENCH

CERTIFIED BY

Austin, Texas 78766

(512) 454-4797

PHOHE ATTEN

8501 MoPac Blvd

Box 9948

* Indicates a value less than 5 times the detection limit. Potential error for such low values ranges between

50 and 100%

specific matrix was not within acceptable limits indicating @ Indicates that spike recovery for this analysis on the an interferent present.

SAMPLE IDENTIFICATION

860143 860146 860144 860141 의 의 의 의 의 의 의

duplicate analysis BNA reagent blank 625 matrix spike BNA

Analytical Serv TEST CODES and NAMES used on this report EX 625 Extraction only - 625 BN/A Method 625 Acid Compounds M625 A

Pesticides & PCBs by GC/MS GCMS Characterization-ABN Method 625 Base/Neutrals M625 B MSNS S MS 608

525

PAGE 2 RECEIVED: 02/11/86	Analyti	tical Serv RESULTS BY TEST	REPORT Test	LAB # 86-02-058	-058
TEST CODE	Sample 01	7	Sample 02 Sample 03 Sample 04 Sample 05 intered units) (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
EX 625	02/12/86	02/12/86	02/12/86	02/12/86	02/12/86
					02/12/86
	· · · · · · · · · · · · · · · · · · ·				02/12/86

RECEIVED: 02/11/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-058

SAMPLE 1D 860141

FRACTION OIA TEST CODE M625 A
Date & Time Collected 02/10/86

NAME Method 625 Acid Compounds

Category

DATA FILE 20002038001 CONC. FACTOR

DATE EXTRACTED 02/12/84 DATE INJECTED 02/26/86

INSTRUMENT ANAL YST

VERIFIED BY LAK COMPOUNDS DETECTED

3

RESULT

月

4-nitrophenol

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2, 4-dinitrophenol

9

COMPOUND NPDES SCAN RESULT 윋 2, 4, 6-trichlorophenol COMPOUND **21A** EPA NPDES SCAN 11A

4-chloro-3-methylphenol

584 59A 74 A C 2-methyl-4, 6-dinitrophenol

60A

4

2-chlorophenol

24A

14

314

2

34A

3A

57A

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22A

88

64A 63A 478

4

9

2, 4-dichlorophenol

10A

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2,4-dimethylphenol

2

2-nitrophenol

phenol

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pentachlorophenol

SURROGATE RECOVERIES

COMPOUND SCAN CODE

d5-phenol AS1

영

RESULT

2, 4, 6-tribromophenol AS3 1115

2-fluorophenol

AS2

355

476

AS4

d3-phenol

ug/l unless otherwise specified. SCAN = scan ncaber or retention time on chromatogram. AND DEFINITIONS FOR THIS REPORT. All results reported in NOTES

RECEIVED: 02/11/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-058 Continued From Above

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SAMPLE ID 860141

FRACTION OIA TEST CODE M625 A
Date & Time Collected 02/10/86

NAME Method 625 Acid Compounds Category

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).BL=detected in reagent blank, background subtraction not performed.

Minimum detection indicates dilution of sample if greater than one (1). J = estimated value; less than method detection limit. limits should be multiplied by conc. factor.

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LAK K 9 밁 ĝ 윋 月 S 윋 일 2 일 2 밁 2 밁 밁 RESULT 2 BL NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY di-butyl phthalate ∢ N-nitrosodimethylamine N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate butyl benzyl phthalate di-n-octyl phthalate benzo(a)pyrene Œ N-nitrosodiphenulamine diethyl phthalate dimethyl phthalate acenaphthylene benzo (a) anthracene chrysene benzo(k)fluoranthene anthracene benzo(b)fluoranthene LAB # 86-02-058 Category COMPOUND TH TEST CODE M625 B Date & Time Collected 02/10/86 61B **66B** EPA **63B 69**B 74B INSTRUMENT 62B 67B **68B 70B** 71B 72B 73B 75B **76B 77B** 788 ANALYST REPORT NPDES SCAN 1325 Results by Sample **26B** 41B 43B **428** 13B 15B 29B 24B 25B **28 89** 18B 2B 38 **7B 9B** DATE EXTRACTED 02/12/86
DATE INJECTED 02/26/86 RESULT 月 FRACTION OIA 뮏 9 2 2 月 물 뮏 물 S 물 윋 뮏 2 윋 밁 Analytical Serv acenaph thene benzidine 1, 2, 4-trichlorobenzene hexachlorobenzene bis(2-chloroethyl)ether 2-chloronaphthalene 1, 4-dichlorobenzene 3, 3'dichlorobenzidine fluoranthene 40B 4-chlorophenyl phenyl ether hexachloroethane 1,2-dichlorobenzene 2, 4-dinitrotoluene 2,6-dinitrotoluene 1, 3-dichlorobenzene 1,2-diphenylhydrazine COMPOUND DATA FILE 2CU02058COL RECEIVED: 02/11/86 SAMPLE 1D 860141 EPA 12B 188 20B 25B 26B 27B 35B **36B** 37B **1B 28** 88 **86 288** 39B CONC. FACTOR NPDES SCAN 36B 16B 21B 22B 23B 27B **28B** 17B 13 46B 33B 1 1 B 20B 29B 31B 4 B 529 2

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PAGE 6 RECEIVED: 02/11/86	Ä)2/11//20	Analytical Serv 86 Resu	il Serv Results by Sample	RE ig Samp 1	REPORT Ip le	LAB # 86-02-058 Continued From Above
SAMPLE ID 860141		360141		FRACTION O1A TEST CODE M625 Date & Time Collected 02/10/86	TEST ollecte	TEST CODE M625 B ected 02/10/86	NAME Method 625 Base/Neutrals Category
148		418	4-bromophenyl phenyl et	ther ND	88	798	benzo(ghi)perylene ND
128		428	bis(2-chloroisopropyl)e1	ther ND	32B	808	fluorene ND
108		43B	bis(2-chloroethoxy)meth	ane ND	448	818	phenanthrene B ND
348		52B	hexachlorobutadi	ene ND	198	828	dibenzo(a, h) anthracene ND
358		33B	hexachlorocyclopentadi	ene ND	37B	838	indeno(1,2,3-cd)pyrene ND
98E 2		34B	isophor	one ano	- 45B	848	pyrene ND
5 3		338	naphtha]	ene ND			
0 80 4		36B	nitrobeni	ON ene			
SURROGATE RECOVERIES	ATE 1	RECOVE	RIES				
u,	SCAN	SCAN CODE	RESULT				

-	d5-nitrobenzene 83	2-fluorobiphenyl 7	d14-terphenyl 46	d10-biphanyl
DE RESULT	BS1 d5	BS2 2-¢	BS3	BS4
5				_
SCAN CODE	709	<u>E88</u>	1483	

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). = benzo(a)anthracene and chrysene co-elute in high concentrations ug/l unless otherwise specified. = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in

POSSES PROFESSOR RECECCES PROFESSOR FUNCTIONAL RESISTANCE RESISTANCE PROFESSOR PROFESSOR

PAGE 7 RECEIVED: 02/11/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-058 Continued From Above

SAMPLE ID 860141

NAME Method 625 Base/Neutrals Category

Minimum detection

FRACTION OIA TEST CODE M625 B Date & Time Collected 02/10/86 B = anthracene

BL = detected in reagent blank; background subtraction not performed and phenanthrene co-elute in high concentrations.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

CONC. FACTOR:

J = estimated value; less than method detection limit.

	555555 KXK58 KXXXX
NOTA NOTA NOTA NOTA NOTA NOTA NOTA NOTA	

PAGE 8 RECEIVED: 02/11/86

Analytical Serv

REPORT Results by Sample

LAB # 86-02-058

SAMPLE ID 860141

FRACTION OIA TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/10/86 Category

CHRD # 2002058C01

DATE ANALYZED 02/26/86

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COMPOUND

SCAN

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RESULT

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PAGE 9 RECEIVED: 02/11/86

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-058

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SAMPLE 10 860141

FRACTION OIA TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/10/86

DATA FILE 2CU02058C01 CONC. FACTOR

DATE EXTRACTED 02/12/86 DATE INJECTED 02/26/86

ANALYST

VERIFIED BY AK COMPOUNDS DETECTED 0 VERIFIED BY

RESULT	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
COMPOUND	•		Ġ)	70								Ţ.	
SCAN EPA	102P	103P	104P	105P	106P	107P	1086	109P	110P	1116	112P	1136	
NPDES SCAN	či N	e e	4	B	186	196	20P	216	22P	236	24P	25P	
H	9	Q	9	9	9	2	9	2	Ž	Q Z	9	2	2
RESULT													
COMPOUND RESUL	aldrin	dieldrin	chlordene	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
EPA COMPOUND	drin	drin	lane				endosulfan	endosulfan	fate	rin	epñ.	lor	epoxide
COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	93P 4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide

Received Programme Application (Programme Programme)

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REPORT Results by Sample Analytical Serv

Continued From Above LAB # 86-02-058

Section Species

SAMPLE ID 860141

FRACTION OIA TEST CODE MS 608 Date & Time Collected 02/10/86

NAME Pesticides & PCBs by GC/MS Category

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-058

SAMPLE 1D 860143

FRACTION 02A TEST CODE M625 A Date & Time Collected 02/10/86

NAME Method 625 Acid Compounds Category

> DATA FILE 20002058002 CONC. FACTOR

DATE EXTRACTED 02/12/86 DATE INJECTED 02/26/86

INSTRUMENT

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VERIFIED BY LAK COMPOUNDS DETECTED 밁

2, 4-dinitrophenol

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2-methyl-4, 6-dinitrophenol

60A

4

月

2-chlorophenol

644

46

月

2, 4-dichlorophenol

63A

10A 4B0

물

2, 4-dimethylphenol

344

AE.

윋

2-nitrophenol

39A

S V

月

밁

pentachlorophenol

phenol

윋

4-nitrophenol

RESULT

COMPOUND

EPA

NPDES SCAN

RESULT

COMPOUND

28

74

9

2, 4, 6-trichlorophenol

4-chloro-3-methylphenol

214 22A 244 EPA **31A** NPDES SCAN 11A Ø Ø ₹ 535 2

SURROGATE RECOVERIES

57A

6A

COMPOUND	d5-pheno
CODE	AS1
SCAN	478

3

RESULT

9

2-fluorophenol 2, 4, 6—tribromophenol AS2 AS3 358 1116

AS4

d3-phenol

ug/l unless otherwise specified SCAN = scan number or retention time on chromatogram NOTES AND DEFINITIONS FOR THIS REPORT. All results reported in

PAGE 12 RECEIVED: 02/11/86

Results by Sample Analytical Serv

REPORT

Continued From Above LAB # 86-02-058

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SAMPLE ID 860143

NAME Method 625 Acid Compounds Category

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). FRACTION OZA TEST CODE M625 A
Date & Time Collected 02/10/86

Minimum detection BL = detected in reagent blank; background subtraction not performed.indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

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PAGE 13

LAB # 86-02-058

REPORT

Analytical Serv

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RESULT NAME Method 625 Base/Neutrals COMPOUNDS DETECTED VERIFIED BY N-nitrosodimethylamine N-nitrosodiphenylamine butyl benzyl phthalate ∢ N-nitrosodi-n-propylamine bis(2-ethylhexyl)phthalate di-butyl phthalate di-n-octyl phthalate diethyl phthalate dimethyl phthalate benzo(#)pyrene C acenaphthylene benzo (a) anthracene anthracene benzo(b)fluoranthene benzo(k)fluoranthene chrysene Category COMPOUND M T FZ TEST CODE M625 B Date & Time Collected 02/10/86 66B EPA 61B **BE9** 62B **67B** 70B ANALYST INSTRUMENT **68B** 69B 71B 72B **13B** 74B 75B **76B** 77B 78B NPDES SCAN Results by Sample 41B 43B **428** 138 15B 26B 29B 24B 25B 18B 2B **2**B **6B 7**B 98 38 02/12/86 RESULT 일 9 FRACTION 02A 月 月 月 2 밀 月 윋 뮏 2 일 밁 뮏 月 밁 DATE EXTRACTED DATE INJECTED 1, 2, 4-trichlorobenzene acenaphthene benzidine hexachlorobenzene hexach loroethane bis(2-chloroethyl)ether 2-chloronaphthalene 1, 2-dichlorobenzene 1, 3-dichlorobenzene 1, 4-dichlorohenzene 3, 3 'dichlorobenzidine 2, 4-dinitrotoluene 2,6-dinitrotoluene 1, 2-diphenylhydrazine fluoranthene 40B 4-chlorophenyl phenyl ether COMPOUND 2002058002 02/11/86 SAMPLE ID 860143 EPA 37B 18 33 88 98 12B 18B 20B 25B 26B 27B **28B** 35B 36B 39B DATA FILE CONC. FACTOR NPDES SCAN RECEIVED: 1₁₆₈ 802 37 48 46B 33B 36B 21B 22B 27B 29B 31B 17B 23B 28B

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LAB # 86-02-058 Continued From Above

REPORT

Analytical Serv

02/11/86

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Results by Sample

SAMPLE	SAMPLE 1D 860143		FRACTION 02A	TEST CODE M625 B	TEST CODE M625 B NAME Method 625 Base/Neutral
		Date	k Time Co	Date & Time Collected 02/10/86	Category
148	418	4-bromophenyl phenyl ether	CN	88 798	benzo (ghi)perylene
12B	42B	bis(2-chloroisopropyl)ether	Q	328 808	fluorene
108	438	bis(2-chloroethoxy)methane	QN	448 818	phenanthrene B
348	32B	hexachlorobutadiene	Q	198 828	dibenzo(a, h) anthracene
358	93B	hexachlorocyclopentadiene	QN	37B 83B	indeno(1, 2, 3-cd)pyrene
388	34B	isophorone	ON	45B 84B	anaryd
2 3	35B	naphthalene	QN		
53 53	36B	nitrobenzene	S S		

2

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9

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밀

S

RESULT	d5-nitrobenzene	2-fluorobiphenyl.	d14—terpheny]	d10-biphenyl
SCAN CODE	608 BS1	884 BS2	1484 BS3	BS4

SURROGATE RECOVERIES

Przene

NOTES AND DEFINITIONS FOR THIS REPORT

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84) = benzo(a)anthracene and chrysene co-elute in high concentrations. ug/1 unless otherwise specified. = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in__

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PAGE 15 RECEIVED: 02/11/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-058 Continued From Above

SAMPLE ID 860143

FRACTION OZA TEST CODE M625 B Date & Time Collected 02/10/86

NAME Method 625 Base/Neutrals Category

Minimum detection = detected in reagent blank; background subtraction not performed indicates dilution of sample if greater than one (1). and phenanthrene co-elute in high concentrations J = estimated value: less than method detection limit. limits should be multiplied by conc. factor.

and described because analysis accesses described because described by

LAB # 86-02-058	WE GCMS Characterization-ABN Category	VERIFIED BY <u>LAK</u> -	CONF REF LEVEL CMPD	
Analytical Serv REPORT Results by Sample	FRACTION 02A TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected 02/10/86 Category	DATE ANALYZED 02/26/86 UNITS 49/1	COMPOUND	No PCBs
PAGE 16 RECEIVED: 02/11/86	SAMPLE ID 860143	CHRD # 2002058C02 SAMPLE SIZE 1	SCAN CO	ON.

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REPORT Results by Sample Analytical Serv

LAB # 86-02-058

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SAMPLE 10 860143

FRACTION O2A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/10/86

ANALYST DATE EXTRACTED 02/12/86
DATE INJECTED 02/26/86 DATA FILE 2002058002 CONC. FACTOR

VERIFIED BY LAK COMPOUNDS DETECTED 0

RESULT	S	S	S	Q	Q	Q	Q	S	S	2	Q	Q	
•	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
COMPOUND													
SCAN EPA	102P	103P	104P	105P	106P	107P	108P	109P	110P	111P	112P	113P	
NPDES 8	25	e e	4	in	186	196	20P	216	. 22P	23P	24P	236	.
		~	~1									1	
RESULT	Q	S	N	QN	S	S	Q	Q	S	QN	QN	ND	QN
COMPOUND RESUL.	aldrin N	dield-in N	chlordane NI	4, 4'-DDT ND	4, 4'-DDE ND	4, 4'-DBD ND	alpha endosulfan NI	beta endosulfan ND	endosulfan sulfate ND	endrin ND	endrin aldehyde ND	heptachior ND	heptachlor epoxide ND
	drin	drin	dane				endosulfan	endosulfan	sulfate	drin	• phq	hior	epoxide

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PAGE 18 RECEIVED: 02/11/86

Analytical Serv Results by Sample

LAB # 86-02-058 Continued From Above

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SAMPLE 1D 860143

FRACTION OZA TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/10/86

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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REPORT Results by Sample Analytical Serv

LAB # 86-02-058

BSSS Meechans Values

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SAMPLE 10 860144

FRACTION 03A TEST CODE M625 A
Date & Time Collected 02/10/86

NAME Method 625 Acid Compounds Category

> DATA FILE 20102058003 CONC. FACTOR

DATE EXTRACTED 02/12/84 DATE INJECTED 02/26/84

ANALYBT INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED

귉

9

4-nitrophenol

RESULT

COMPOUND

2

2, 4-dinitrophenol

2

일

pentachlorophenol

phenol

2-methyl-4, 6-dinitropheno **60A** EPA **38A 59A** 64A **63**A 477 NPDES SCAN 10A 4 4 4 Š 呈 RESULT 月 윋 물 물 2, 4, 6-trichlorophenol 2, 4-dichlorophenol 2-nitrophenol 4-chloro-3-methylphenol 2-chlorophenol 2,4-dimethylphenol COMPOUND 214 244 EPA **757 31A** 344 **57A** NPDES SCAN 114 ₩ **€** ₹9 543 2

SURROGATE RECOVERIES

RESULT	d5-phenol 69	phenol 74	phenol 59	d3-phenol
COMPOUND	43-	2-fluorophenol_	2, 4, 6-tribromophenol	-EP
SCAN CODE	475 AS1	353 AS2	1116 AS3	AS4

SCAN = scan number or retention time on chromatogram AND DEFINITIONS FOR THIS REPORT. NOTES

All results reported in

ug/l unless otherwiss specified

PAGE 23

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-058

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Continued From Above

SAMPLE ID 860144

FRACTION 03A TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected 02/10/86 Category

Category

Minimum detection

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed.

indicates dilution of sample if greater than one (1).

J = estimated value: less than method detection limit.

limits should be multiplied by conc. factor.

CONC. FACTOR:

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LAB # 86-02-058

Analytical Serv REPORT Results by Sample

sle	X C	RESULT	Q	ND	Q	2 BL	S	2 BL	ND	QN	ND	ND	ND	QV	N	SN SN	N	Š
Method 625 Base/Neutrals Category	VERIFIED BY DS DETECTED	₹	.mine	anime _	amine	late	phthalate	alate	phthalate	alate	alate	¥ •	rene	* 	*	A	lene	m • c
d 625 Ba	VER)	۵	N-nitrosodimethylamine	N-nitrosodiphenylamine	propyla	1)phth		1 phthalat		l phthalat	l phthalat	benzo(a)anthracene	benzo(a)pyren	benzo(b)fluoranthene	benzo(k)fluoranthen	chrysene	acenaphthylene	anthracene
Method	COMP	COMPOUND	trosodi	trosodí	-u-ipos	hy 1 he xy	l benzyl	di-butyl	di-n-octyl	diethy	dimethyl	ne(e)02	•	(b)fluo	(k)fluo		8 U 9	4
NAME	FZ		¥ n ₹	N-n £	N-nitrosodi-n-propylamine	bis(2-ethylhexyl)phthalat	butyl		9			.		ben zo	benzo			
M625 B	ANALYSTTRUMENT	EPA	61B	62B	8E9	999 p	67B	889	869	70B	718	72B	738	74B	75B	16B	77B	78 B
TEST CODE ected 02/1	ANALYST INSTRUMENT	SCAN				1668		1326										
TES ollect		NPDES	418	438	42B	138	15B	26B	29B	24B	25B	90	69	7.8	98	188	2B	88
ACTION O3A TEST CODE M625 Ite & Time Collected 02/10/86	<u>02/12/86</u> 02/26/86	RESULT	Q	Q	QN	QN	Ž	Q.	Q	Q	Q	Q	Q	Q	Q	Ž	Q	Q Z
FRACTI Date 8	DATE EXTRACTED DATE INJECTED	Q	acenaph thene	benzidine	hlorobenzene	hexachlorobenzene	hexachloroethane	oethy]}ether	2-ch loronaphthalene	1,2-dichlorobenzene	1,3-dichlorobenzene	1, 4-dichlorobenzene	orobenzidine	2, 4-dinitrotoluene	2, 6-dinitrotoluene	nylhydrazine	fluoranthene	phenyl ether
	2CU02058C03 DA	COMPOUND			1, 2, 4-trichlorobenz	hexac	hexa	bis(2-chloroethyl)e	2-chlor	1, 2-dic	1, 3-dic	1, 4-dic	3, 3'dichlarobenzi	2, 4-61	2,6-41	1,2-diphenylhydra		4-chlorophenyl
0144		EPA	18	80	88	98	12B	188	20B	25B	26B	27B	288	35B	36B	378	39B	40B 4-
SAMPLE ID 860144	DATA FILE C. FACTOR	SCAN																
SAMPLE	DAT CONC.	NPDES	18	48	46B	338	ggg 2	11B	891 45	20B	218	22B	23B	27B	28B	29B	318	17B
				<u> </u>					• J ☆☆☆									

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LAB # 86-02-058 Continued From Above	M625 B NAME Method 625 Base/Neutrals 10/86 Category	79B benzo(ghi)perylene ND	80B #1uorene ND	BIB phenanthrene B ND	828 dibenzo(a,h)anthracene ND	B3B indeno(1, 2, 3-cd)pyrene ND	B4B pyrene ND			
Serv REPORT Results by Sample	ACTION 03A TEST CODE M625 B	88	328	448	198	37B	45B	~ ~~ ~		
Analytical	FRACTION O3A Date & Time C	4-bromophenyl phenyl ether ND	bis(2-chloroisopropyl)ether ND	bis(2-chloroethoxy)methane ND	hexachlorobutadiene ND	hesachlorocyclopentadiene ND	isophorone	naphthalene ND	nitrobenzene ND	IE6
02/11/86	860144	418	42B bi	43B b	228	338	948	558	36B	SURROGATE RECOVERIES
PAGE 22 RECEIVED: 02/11/86	SAMPLE 10 860144	148	128	108	348	358	88E 2	86 548	40B	SURROGATE

407 891 dS-nitrohenanen 94		1484 BS3 d14-terphenyl 51 BS4 d10-biphenyl
----------------------------	--	--

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). A = benzo(a)anthracene and chrysene co-elute in high concentrations. ug/1 unless otherwise specified. * = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram All results reported in.

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Results by Sample Analytical Serv

REPORT

Continued From Above LAB # 86-02-058

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SAMPLE 10 860144

FRACTION 03A TEST CODE M625 B Date & Time Collected 02/10/86

NAME Method 625 Base/Neutrals Category

Minimum detection

phenanthrene co-elute in high concentrations. B = anthracene

BL = detected in reagent blank; background subtraction not performed. value: less than method detection limit. U = estimated

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor. CONC. FACTOR:

PAGE 24 RECEIVED: 02/11/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-058

SAMPLE 10 860144

FRACTION 03A TEST CODE MSNS S

NAME GCMS Characterization-ABN Date & Time Collected 02/10/86

Category

VERIFIED BY LAK

DATE ANALYZED 02/26/86

UNITE MAZE

REF CMPD CONF

RESULT

CHRG # 2V02056C03

No PCBs

COMPOUND

SCAN

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Results by Sample Analytical Serv

LAB # 86-02-058

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SAMPLE 1D 860144

FRACTION 03A TEST CODE NS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/10/86

DATA FILE 2002038003 CONC. FACTOR

DATE EXTRACTED 02/12/86 DATE INJECTED 02/26/86

ANALYST

VERIFIED BY LAK COMPOUNDS DETECTED

RESULT	Q	Q	QN	QN	QN	QN	ON	QN	QN	2	QN	QN	
	alpha BHC	beta BHC	gamma BHC	delta BHC	PCB-1242	PCB-1254	PCB-1221	PCB-1232	PCB-1248	PCB-1260	PCB-1016	toxaphene	
COMPOUND	•		G	•								•	
EPA	102P	1036	104P	1036	106P	107P	108P	109P	110P	1116	112P	113P	
NPDES SCAN	2	8	4	a.	18P	19P	20P	21P	22P	23P	24P	25P	
Ž													
RESULT	S	S	Q	2	Q	9	S	S	Q	Q	Q	Q Q	S
COMPOUND RESULT	aldrin ND	dieldrin ND	chlordane ND	4, 4'-DDT ND	4, 4'-DDE ND	4, 4'-DDD ND	alpha endosulfan ND	beta endosulfan ND	endosulfan sulfate ND	endrin ND	endrin aldehyde ND	heptachlor ND	heptachlor epoxide ND
EPA COMPOUND	drin	drin					endosulfan	endosulfan	sulfate	drin	hyde		epoxide
EPA COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
COMPOUND	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	9P 94P 4,4'-DDD	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide

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PAGE 26 RECEIVED: 02/11/86

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-058 Continued From Above

TOTAL SANSANS, MARKAY, CONSISSANS

SAMPLE 1D 860144

FRACTION 03A TEST CODE MS 608 Date & Time Collected 02/10/86

NAME Pesticides & PCBs by GC/MS Category

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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RECEIVED: 02/11/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-058

SAMPLE 1D 860146

FRACTION 04A TEST CODE M625 A
Date & Time Collected 02/10/86

NAME Method 625 Acid Compounds Category

> DATA FILE 2002058004 CONC. FACTOR

DATE EXTRACTED 02/12/86 DATE INJECTED 02/26/86

ANALYST INSTRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED

H H

EPA **584 39A** NPDES SCAN 4 S A RESULT 月 月 2, 4, 6-trichlorophenol 4-chloro-3-methylphenol COMPOUND EPA **21A** 22A NPDES SCAN 114

409

4

2

2-chlorophenol

2-methyl-4, 6-dinitrophenol pentach lorophenol

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phenol

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1-nitrophenol

RESULT

COMPOUND

2

2, 4-dinitrophenol

9

63A

10A

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2,4-dimethylphenol

2

2-nitrophenal

644

98

2

2, 4-dichlorophenol

31**A**

7

551

244

344

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SURROGATE RECOVERIES

57A

49

COMPOUND SCAN CODE d5-phenol 2-fluorophenol **AS2**

AS1

478

3

91

RESULT

2, 4, 6—tribromophenol **A**S3

1116

358

d3-phenol **AS4**

ug/l unless otherwise specified SCAN = scan number or retention time on chromatogram AND DEFINITIONS FOR THIS REPORT. All results reported in NOTES

STATES OF STATES See Samuel See

RECEIVED: 02/11/86 PAGE 28

Results by Sample Analytical Serv

REPORT

Continued From Above LAB # 86-02-058

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SAMPLE 1D 860146

Category

FRACTION 04A TEST CODE M625 A
Date & Time Collected 02/10/86

NAME Method 625 Acid Compounds

Minimum detection BL=detected in reagent blank, background subtraction not performed. indicates dilution of sample if greater than one (1). value: less than method detection limit. limits should be multiplied by conc. factor. U = estimated CONC. FACTOR:

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

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Analytical Serv REPORT Results by Sample

LAB # 86-02-058

NAME Method 625 Base/Neutrals FRACTION 04A TEST CODE M625 B SAMPLE ID 860146

	BY LAK	RESULT	Q	S	Q.	6 BL	Q.	Q.	S	Q	Q	S	S	R	Q	S	N	Ö
Category	WJL VERIFIED BY	COMPOUND	N-nitrosodimethylamine	N-nitrosodiphenylamine	N-nitrosodi-n-propylamine	bis(2-ethylhexyl)phthalate	butyl benzyl phthalate	di-butyl phthalate	di-n-octyl phthalate	diethyl phthalate	dimethyl phthalate	benzo(a)anthracene A	benzo(a)pyrene	benzo(b)fluoranthene *	benzo(k)fluoranthene *	chrysene A	acenaphthylene	anthracene B
88		∢						8	8	8	æ .		8			B	6	8
d 02/10/86	ANALYST INSTRUMENT	SCAN EPA	618	829	869	1667 66B	678	889	869	708	718	72B	738	748	758	768	778	788
Time Collected	H	NPDES	418	438	42B	138	158	268	298	248	258	98	68	78	98	188	28	38
S	98																 - ·	
	02/12/86 02/27/86	RESULT	QN	S	Q	Q	S	Q	Q	Q	QN	QN	<u>QN</u>	Q	QN	S	QN	QN
Date & Time	DATE EXTRACTED <u>02/12/</u> DATE INJECTED <u>02/27/</u>		acenaphthene ND	benzidine ND	1zene	hexachlorobenzene ND	herachloroethane ND	ether	lene	nzene -	2679	euez.	idine	luene	luene	ez ine	fluoranthene	phenyl ether
~ &	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	herachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1, 4-dichlorobenzene	3, 3'dichlorobenzidine	2, 4-dinitrotoluene	2, 6-dinitrotoluene	1, 2-diphenylhydrazine	fluoranthene	4-chlorophenyl phenyl ether
~ &	EXTRACTED : INJECTED		thene	ldine	1zene	auez.	thane	ether	lene	nzene -	2679	euez.	idine	luene	luene	ez ine	thene	phenyl ether

ZELOTA NO SECONO

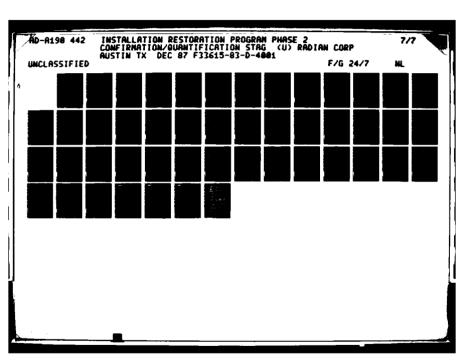
LAB # 86-02-058 Continued From Above	B NAME Method 625 Base/Neutrals Category	benzo(ghi)perylene	fluorene ND	phenanthrene B ND	dibenzo(a, h)anthracene ND	indeno(1, 2, 3-cd)pyrene ND	Durene ND		
REPORT Ip 1 e	ACTION 04A TEST CODE M625 B	19B	808	818	828	838	848		
RE Samp 1	TEST llecte	88	328	448	198	378	458		
Serv REPARENTS REPARENTS SAMPLE	Time Co	Q	QN	Q	S	Q	ğ	9	9
Analytical Serv Resu	FRACTIC Date &	4-bromophenyl phenyl ether	bis(2-chloroisopropyl)ether	bis(2-chloroethoxy)methane	hexachlorobutadiene	hexachlorocyclopentadiene	isophorone	naphthalene	nitrobenzene
%			b1s(2	bis(٤			
PAGE 30 RECEIVED: 02/11/86	SAMPLE ID 860146	41B 4-br	42B bis(2	43B bis(32B	SGB he	548	358	996

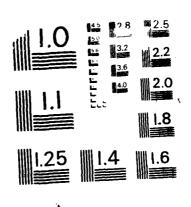
SURROGATE RECOVERIES

RESULT	d5-nitrobenzene 60	2-fluorobiphenyl 56	d14-terphenyl 64	d10-biphenyl
CODE	881	882	833	488
SCAN CODE	809	884	1483	

ANT THE INITIONS FOR THIS REPORT.

10tertod at EPA detection limit method 625, (Federal Register, 10/26/84). enthis ere and chrysene co-elute in high concentrations. ug/1 unless otherwise specified. * *!..oranthene and benzo(k) fluoranthene co-elute. ... an number or retention time on chromatogram. sales reported in Z





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PAGE 31 RECEIVED: 02/11/86

Analytical Serv

REPORT Results by Sample

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LAB # 86-02-058 Continued From Above

SAMPLE ID 860146

B = anthracene

FRACTION O4A TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected 02/10/86 Category

Category

indicates dilution of sample if greater than one (1). factor. limits should be multiplied by conc. CONC. FACTOR:

= detected in reagent blank; background subtraction not performed

J = estimated value; less than method detection limit.

and phenanthrene co-elute in high concentrations.

Minimum detection

5.0%	
1787	
183	
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KXX	<i>:</i>
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PAGE 32 RECEIVED: 02/11/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-058

SAMPLE 1D 860146

FRACTION 04A TEST CODE MSNS S Date & Time Collected 02/10/86

NAME GCMS Characterization-ABN

Category

VERIFIED BY LAK

CHRD # 2402058C04 SAMPLE SIZE 1

DATE ANALYZED 02/26/86

UNITS MAZI

REF CONF

REBULT

SCAN

COMPOUND No PCBs

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PAGE 33 RECEIVED: 02/11/86

Analytical Serv

Serv REPORT Results by Sample

LAB # 86-02-058

SAMPLE 1D 860146

FRACTION 04A TEST CODE MS 608 Date & Time Collected 02/10/86

NAME Pesticides & PCBs by GC/MS Category

DATA FILE <u>2CU02058C04</u> CONC. FACTOR

DATE EXTRACTED 02/12/86 DATE INJECTED 02/26/86

ANAL YST

COMPOUNDS DETECTED OF

F #1854	9	alpha BHC NI	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
			_	Ö	-	L	L	L	L	L		•	¢.	
NACO	•	1025	103P	104P	103P	106P	107P	108P	109P	110P	111P	112P	1136	
		กั	ě	4	å in	18P	196	20p	216	22P	23P	24P	1 25P	
F # 50 U		2	S	S.	9	9	2	9	2	8	Q	Q	Q	Q
	•	LILDIA	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4 '-000	alpha endosulfan	beta endosulfan	endosulfan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
90		26 8	906	916	92P	4 26	9 4 P	93P	496	97P	986	466	100P	101P
	Z 2000	a	10P	6 P	7P	8	96	116	12P	14P	14P	15P	16P	17P

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Analytical Serv REPO Results by Sample

REPORT

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LAB # 86-02-058 Continued From Above

SAMPLE 1D 860146

FRACTION 04A TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected 02/10/86 Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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Analytical Serv

Results by Sample

LAB # 86-02-058

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SAMPLE ID duplicate analysis BNA

FRACTION 05B TEST CODE M625 A NAME Method 625 Acid Compounds
Date & Time Collected not specified Category Category

> 2002058005 DATA FILE

INSTRUMENT

CONC. FACTOR

DATE EXTRACTED 02/12/86 DATE INJECTED 02/26/86

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VERIFIED BY LAK COMPOUNDS DETECTED

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RESULT

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_	•	•	•	•	•
COMPOUND	4-nitrophenol	2, 4-dinitrophenol	2-methyl-4, 6-dinitrophenol	pentachlorophenol	phenol
EPA	28A	39A	60 A	64A	63A
NP DE	4	*	4	9	104
RESULT NPDES SCAN	Q	QN	QN	Q	S
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2,4-dimethylphenol _
EPA	21A	22A	24A	31A	344
SCAN					
NPDES	114	8₩	14	2A	₩ G
iožo.				\$3	9 9

SURROGATE RECOVERIES

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2-nitrophenol

RESULT	d5-phenol 73	phenol 79	pheno1 70	d3-phenol
COMPOUND	40	2-fluorophenol	2, 4, 6—tribromophenol	43-
SCAN CODE	479 AS1	361 AS2	1114 AS3	AS4
U ,	•	•	1	

NOTES AND DEFINITIONS FOR THIS REPORT.

ug/l unless otherwise specified. SCAN = scan number or retention time on chromatogram. All results reported in

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Analytical Serv

Results by Sample

LAB # 86-02-058 Continued From Above

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SAMPLE ID duplicate analysis BNA

FRACTION 05B TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).BL = detected in reagent blank, background subtraction not performed.

Minimum detection indicates dilution of sample if greater than one (1). J = estimated value, less than method detection limit. limits should be multiplied by conc. factor.

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Results by Sample Analytical Serv

REPORT

LAB # 86-02-058

SAMPLE ID duplicate analysis BNA

NAME Method 625 Base/Neutrals Category FRACTION OSB TEST CODE M625 B N/Date & Time Collected not specified

Data File 20002038009 Date inJected Q2/12/86 INSTRUMENT F2 COMPOUNDS DETECTED Page COMPOUNDS DATE INJECTED Q2/26/86 INSTRUMENT F2 COMPOUNDS DETECTED Page COMPOUNDS DATE INJECTED Q2/26/86 INSTRUMENT F2 COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page COMPOUNDS DETECTED Page P	BY LAK	RESULT	S	ON NO	S	S	QN	4 BL	Ö	CN	Q
DATA FILE 2CD02038CQ2 DATE EXTRACTED 02/12/86 ANALYST HALL UND CONC. FACTOR 1 DATE INJECTED 02/26/86 INSTRUMENT F2 UND CONC. FACTOR 18 COMPOUND RESULT NPDES SCAN EPA COMPOUND 48 18 ACB ACB NPD INTERPRED NP	VERIFIED MPOUNDS DETECT	QNF	imethylamine	iphenylamine	-propylamine	(yl)phthalate					
DATA FILE 2CD02038C03 DATE INJECTED 02/12/86 ANALYST 1B 1B acenaphthene ND 4.1B 6.2B 4B 1B acenaphthene ND 4.2B 6.2B 4B 1B benzidine ND 4.2B 6.2B 4B 1, 2, 4-trichlorobenzene ND 1.2B 6.2B 3AB 1, 2, 4-trichlorobenzene ND 1.3B 6.2B 3AB 1.2B hexachloroethane ND 1.3B 6.8B 11B bis(2-chloroethane ND 1.5B 6.8B 6.7B 16B bis(2-chloroethane ND 1.5B 6.8B 6.7B 16B bis(2-chloroethane ND 1.5B 6.7B 6.7B 20B 2-chloronaphthalene ND 2.9B 7.0B 20B 1.2-dichlorobenzene ND 2.9B 7.0B 21B 2.6B 1.3-dichlorobenzene ND 2.5B 7.1B	4	COMPOC	N-nitrosoc	N-nitrosod	N-nitrosodi-r	bis(2-ethylhen	butyl beni	d1-but	d1-n-oct	dieth	dimeth
DATA FILE 2CD02038CO5 DATE EXTRACTED 02/12/96 NPDES SCAN EPA COMPOUND RESULT NPDES 1B 1B acenaphthene ND 41B 4BB 1, 2, 4-trichlorobenzene ND 138 33B 9B hexachlorobenzene ND 138 34B 1, 2, 4-trichlorobenzene ND 138 35B hexachlorobenzene ND 138 16B bis(2-chloronaphthalene ND 128 20B 2-chloronaphthalene ND 298 20B 1,2-dichlorobenzene ND 298 21B 1,3-dichlorobenzene ND 29B	LYST _	EPA	61B	62B	8 E9		67B	889	849	70B	718
DATA FILE 2CD02038CO5 DATE EXTRACTED 02/12/96 NPDES SCAN EPA COMPOUND RESULT NPDES 1B 1B acenaphthene ND 41B 4BB 1, 2, 4-trichlorobenzene ND 138 33B 9B hexachlorobenzene ND 138 34B 1, 2, 4-trichlorobenzene ND 138 35B hexachlorobenzene ND 138 16B bis(2-chloronaphthalene ND 128 20B 2-chloronaphthalene ND 298 20B 1,2-dichlorobenzene ND 298 21B 1,3-dichlorobenzene ND 29B	ANA	SCAN						1324			
DATA FILE 2CD02058C05 DATE EXTRACTED 02/12/96 NPDES SCAN EPA COMPOUND RESULT 4B 5B 1, 2, 4-trichlorobenzene ND 46B 12B hexachloroethane ND 33B 7B hexachloroethane ND 11B 12B his(2-chloroethyl)ether ND 16B 2-chloromaphthalene ND 20B 2-chlorobenzene ND 20B 1,2-dichlorobenzene ND 20B 1,2-dichlorobenzene ND		NPDES	418	43B	42B	138	158	568	298	24B	25B
DATA FILE 2CD02038C03 DATE CONC. FACTOR 1 DATE NPDES SCAN EPA COMPGUND 4B 1B acen 4B 1,2,4-trichlor 35B hexachlor 35B hexachlor 36B 1,2,4-trichlor 36B 1,2,4-trichlor 36B hexachlor 36B 1,2,4-trichlor 36B 1,2,4-trichlor 36B 1,2,4-trichlor 36B 1,2,4-trichlor 36B 1,2,4-trichlor 36B 1,2,4-trichlor 36B 1,2,2-chloroeth 16B bis(2-chloroneth 20B 2-chloroneth 20B 2-chloroneth 20B 1,2-dichlor 21B 1,3-dichlor			QN	2	Q	Q	Q		QN	QN	QN
DATA FILE 2CD02038C03 1	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	4-trichlorobenzene	hexachlorobenzene	hexachloroethane	2-chloroethyl)ether	2-chloronaphthalene	I, 2-dichlorobenzene	l, 3-dichlorobenzene
	CD02058C05	ď	•	•		m	œ				
	A FILE Z		1	ñ	\overline{\overline{\pi}}	õ	121	18	20	25	26
73 L 1 7 7	DAT CONC.	NPDES	18	4B	46B	33 B	368				218

月 뫼 의 밀 의 benzo(a)pyrene acenaphthylene benzo(a)anthracene chrysene benzo(b)fluoranthene anthracene benzo(k)fluoranthene 72B **13B 74B 758** 76B **77B** 788 **2B** 2B 38 **6B 7**B 18B 웆 윋 밀 윋 1, 4-dichlorobenzene 2, 4-dinitrotoluene 2,6-dinitrotoluene 1,2-diphenylhydrazine 40B 4-chlorophenyl phenyl ether fluoranthene 3,3'dichlorobenzidine 27B 288 35B 36B 37B 39B 22B **23B** 27B **28B** 29B 31B 17B

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PAGE 38	RECEIVED:

Results by Sample utical Serv

LAB # 86-02-058 Continued From Above

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	40001	SAMPLE ID duplicate analysis BNA	FRACTION 05B	58 T	EST CODE	1625 B	AME Metho	5 Base/
5.5 4			Date & Ime Collected not specified	e Colle	cted not	Specifie	Category	gorg
148	418	418 4-bromophenyl pheny	1 ether	QN	88	79B	benzo(ghi)perylene)pergle
128	428	bis(2-chloroisopropy	1)ether	က မြ	32B	80B		fluorene
108	43B	bis(2-chloroethoxy)	me thane	* 9	44B	818	phenan	phenanthrene
т. г. В 46	32B	hexachlorobu	tadiene		198	828	dibenzo(a, h) anthracene	nthrace
80 10 10 10 10 10 10 10 10 10 10 10 10 10	238	hexachlorocyclopen	tadiene	3 2	378	838	indeno(1,2,3-cd)pyrene	cd)pyrer
388	348	isol	phorone	N ON	43B	848		enery q
84E 2	338	Aqen	thalene					
5 9	26B		nitrobenzene	 Q				
SURROGATE RECOVERIES	RECOM	ERIES						
308	SCAN CODE	RESULT						

NOTES AND DEFINITIONS FOR THIS REPORT.

2-fluorobiphenyl

d14-terphenyl

d10-biphenyl

d5-nitrobenzene

BS1

209

BS2

882

BS3

1482

BS4

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). ug/1 unless otherwise specified. * = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in_

* benzo(a)anthracene and chrysene co-elute in high concentrations

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Analytical Serv REPORT Results by Sample

LAB # 86-02-058 Continued From Above

SAMPLE ID duplicate analysis BNA

FRACTION OSB TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category

Category

Minimum detection

 $B\ =\ anthracene and phenanthrene co-elute in high concentrations.$

BL = detected in reagent blank; background subtraction not performed indicates dilution of sample if greater than one (1). J = estimated value: less than method detection limit. limits should be multiplied by conc. factor. CONC. FACTOR:

Analytical Serv Kerur Results by Sample

PAGE 40 RECEIVED: 02/11/86

SAMPLE ID duplicate analysis BNA

DATE ANALYZED 02/26/86

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FRACTION 05B TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected not specified Category

LAB # 86-02-058

CONF

REBULT

CHRO # 2002058C05 SAMPLE SIZE 1

No PCBs

COMPOUND

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Analytical Serv

REPORT Results by Sample

LAB # 86-02-058

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SAMPLE ID duplicate analysis BNA

FRACTION 05B TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

WJL COMPOUNDS DETECTED O	COMPOUND	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene	
ANALYST	SCAN EPA	102P	103P	104P	103P	106P	107P	108P	1099	110P	1111	112P	1136	
	NPDES	2	ő	4	ņ	186	199	20P	21P	22P	23P	24P	256	
<u>02/12/86</u> 02/26/86	RESULT	QN	QN	QN	QN	QN	QN	S	Q	Q	QN	QN	QN	QN
DATE EXTRACTED DATE INJECTED	۵	aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'-DDD	endosulfan	endosulfan	fan sulfate	endrin	endrin aldehyde	heptachlor	heptachlor epoxide
DAT A	COMPOUND							alpha	beta	endosulfan		endr		heptach
DATA FILE <u>2CD02058C05</u> IC. FACTOR	EPA	896	906	91P	92P	93P	94P	95P	496	97P	986	466	100P	101P
FACTO	SCAN												~	•-•
DATA FILE CONC. FACTOR	NPDES	16	10P	9	7P	8	96	11P	12P	14P	14P	15P	16P	17P
-	_					9	รคร	5						

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Analytical Serv REPO Results by Sample

LAB # 86-02-058 Continued From Above

SAMPLE ID duplicate analysis BNA

FRACTION OSB TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

RECEIVED: 02/11/86

Results by Sample Analytical Serv

LAB # 86-02-058

SAMPLE ID matrix spike BNA

FRACTION OSA TEST CODE M625 A NAME Method 625 Acid Compounds
Date & Time Collected not specified Category

IN	
02/12/86 02/26/86	
DATE EXTRACTED <u>02/12/86</u> DATE INJECTED <u>02/26/86</u>	
2CM02058C05	
DATA FILE CONC. FACTOR	
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ANALYST STRUMENT

VERIFIED BY LAK COMPOUNDS DETECTED 11

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COMPOUND	4-nitrophenol	2, 4-dinitrophenol	2-methyl-4,6-dinitrophenol	pentachlorophenol	phenol	
EPA	98	39A	₩ 09	64A	63A	
SCAN	7A 1010	5A 1001	4A 1082	9A 1204	10A 481	
NPDES SCAN	¥ .	€ 6	₹	¥6	10A	
RESULT	28	83	78	82	25	70
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2,4-dimethylphenol	2-nitrophenol
EPA	21A	22A	24A	31A	344	57A
SCAN	871	8A 801	1A 501	694	3A 665	6A 639
NPDES SCAN	11A 871			8	34	6
Ž		2	;)	67		

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SURROGATE RECOVERIES

RESULT	d5-phenol 71	phenol 44	phenol_87	d3-phenol
COMPOUND	69	2-fluorophenol	2, 4, 6-tribromophenol	-E9
SCAN CODE	479 AS1	360 AS2	1115 AS3	ASA

X unless otherwise specified SCAN = scan number or retention time on chromatogram NOTES AND DEFINITIONS FOR THIS REPORT. All results reported in

PAGE 44 RECEIVED: 02/11/86

Analytical Serv

Results by Sample

LAB # 86-02-058 Continued From Above

SAMPLE ID matrix spike BNA

FRACTION OSA TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

Minimum detection

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84). BL = detected in reagent blank; background subtraction not performed.

J = estimated value; less than method detection limit. indicates dilution of CONC. FACTOR:

sample if greater than one (1). factor. limits should be multiplied by conc.

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PAGE 45 RECEIVED: 02/11/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-058

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FRACTION 05A TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category SAMPLE ID matrix spire bin

לפינית הפינית ה	WJL VERIFIED BY LAK	COMPOUND	N-nitrosodimethylamine 23	N-nitrosodiphenylamine 77	N-nitrosodi-n-propylamine 61	bis(2-ethylhexyl)phthalate 67	butyl benzyl phthalate 27	di-butyl phthalate 60	di-n-octyl phthalate 53	diethyl phthalate 70	dimethyl phthalate 68	benzo(a)anthracene A 77	benzo(a)pyrene 79	benzo(b)fluoranthene * 75	benzo(k)fluoranthene * 74	chrysene A 75	acenaphthylene 65	anthracene B 79	
ווחר שמברדודבת	YST	EPA	61B	62B	8 29	66B	67B	889	869	70B	71B	72B	73B	74B	75B	76B	77B	788	
	ANALYST INSTRUMENT	SCAN	210	1094	290	7991	1567	1325	1794	1065	952	1655	1990	1895	1901	1662	996	1235	
121 121	ī	NPDES 8	418	43B	428	138	158	26B	29B	24B	258	80	89	78	86	188	2B	38	
מ וושב החוזכרינה	<u>02/12/86</u> <u>02/26/86</u>	RESULT N	59	10	76	8	69	23	73	99	79	99	117	18	77	AN	78	29	•
מפנע מ	DATE EXTRACTED O	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-ch loronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1, 4-dichlorobenzene	3,3'dichlorobenzidine	2,4-dinitrotoluene	2,6-dinitrotoluene	1, 2-diphenylhydrazine	fluoranthene	henyl phenyl ether	
	2CM02038C03	€.	18	800	88 1, 2,	98	128	18B bis(2	20B	25B 1	26B 1	27B 1	28 8 3,3	35B	36B	37B 1,2	39B	40B 4-chlorophenyl	
		N EPA	995		3 802	_		493 18	899 20	555 23	522 20	529 27			<u> 762</u> 34	Ö	i		٠.
	<u> </u>	S SCAN	18 99	4B 1001	468 70	33B 1176	SB 601	118 49	16B B	20B	218 5	22B 5	23B 1649	27B 1024	288 - 20	29B	31B 142	17B 1075	
	CONC.	NPDES	7	4	*	Ж	89E				Ö	ñ	Ň	N	ั	Ň	Ŕ	7-4	
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LAB # 86-02-058 Continued From Above

Results by Sample

Analytical Serv

RECEIVED: 02/11/86

Marianian Se	P LE		atrix	SAMPLE ID matrix spike BNA	FRACTION OSA Date & Time (OSA ime Col	TEST lecte	CODE	FRACTION OSA TEST CODE M625 B NA Date & Time Collected not specified	TEST CODE M625 B NAME Method 625 Base/Neutral ected not specified Category	70
	148	1152	41B	4-bromophenyl phenyl	ether	74	88	2558	798	benzo(ghi)perylene	٦
	12B	571	42B	bis(2-chloroisopropyl)	1)ether	19	32B	1075	808	fluorene	- 1
	108	679	438	bis(2-chloroethoxy)me	methane	19	448	1228	818	phenanthrene B	[
	34B	746	52B	hexach lorobuta	tadiene	78	198	2440	82B d	dibenzo(a, h)anthracene	
	32B		338	hexachlorocyclopentac	tadiene	윋	378	2430	83B 1	indeno(1, 2, 3-cd)pyrene	٦
2	388	646	24B	isophe	phorone	29	45B	1458	848	purene	٦
57	398	717	32B	naphth	thalene	19					
0	40B	611	26B	nítrober	benzene	61					
	ROG	SURROGATE RECOVERIES	:COVER	IES							

83

73

73

98

8

64

d5-nitrobenzene_ 2-fluorobiphenyl RESULT BS1 **BS**2 883 **BS4** SCAN CODE 809 884 1483

얾

9

d14-terphenyl

d10-biphenyl

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detected at EPA detection limit method 625, (Federal Register, 10/26/84). = benzo(a)anthracene and chrysene co-elute in high concentrations unless otherwise specified. = benzo(b)fl oranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in_

THE WATEREST CONTRACTOR WINDOWN

PAGE 47 RECEIVED: 02/11/86

Analytical Serv

Results by Sample

LAB # 86-02-058 Continued From Above

XXXXXX

SAMPLE ID matrix spike BNA

Category

FRACTION OSA TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified Category

Minimum detection indicates dilution of sample if greater than one (1). detected in reagent blank; background subtraction not performed. B = anthracene and phenanthrene co-elute in high concentrations. J = estimated value: less than method detection limit. limits should be multiplied by conc. CONC. FACTOR:

factor.

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RECEIVED: 02/11/86

Analytical Serv

Results by Sample

LAB # 86-02-058

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SAMPLE ID matrix spike BNA

FRACTION 05A

NAME Pesticides & PCBs by GC/MS FRACTION OSA TEST CODE MS 608 NV Date & Time Collected not specified

Category

VERIFIED BY LAK COMPOUNDS DETECTED COMPOUND 겱 EPA ANAL YST 1020 1036 104P NPDES SCAN 8 h 4 DATE EXTRACTED 02/12/86 DATE INJECTED 02/26/86 RESULT 月 9 aldrin dieldrin chlordene COMPOUND DATA FILE <u>2CM02058C05</u> CONC. FACTOR EPA 968 906 916 NPDES SCAN 4 10P 9 2 572

RESULT 月 윋 月 月 月 윋 9 月 9 2 윋 물 alpha BHC gamma BHC PCB-1242 PCB-1232 PCB-1248 PCB-1260 PCB-1016 beta BHC delta BHC PCB-1254 toxaphene PCB-1221 106P 1111 103P 107P 108P 109P 110P 112P 113P 186 21P 236 250 g 196 **20P 22P** 24P 2 밁 9 2 月 月 물 月 윋 4, 4'-DDE alpha endosulfan 4, 4'-DDT 4, 4'-DDD beta endosulfan endrin endosulfan sulfate endrin aldehyde heptachlor 94P **96P 97**P **98**P 926 98 95P 99P 100p 12P 14P 11P 14P 15P 16P

뮏

heptachlor epoxide

101P

17P

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REPORT Analytical Serv REPO Results by Sample

LAB # 86-02-058 Continued From Above

SAMPLE ID matrix spike BNA

Date & Time Collected not specified FRACTION 05A TEST CODE MS 608

NAME Pesticides & PCBs by GC/NS Category

> AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results rejorted in micrograms/liter unless otherwise specified

Analytical Serv Results by Sample

LAB # 86-02-058

SAMPLE ID reagent blank 625

FRACTION OSC TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

Category

DATA FILE 20802058005 CONC. FACTOR

DATE EXTRACTED 02/12/86 DATE INJECTED 02/27/86

INSTRUMENT

VERIFIED BY COMPOUNDS DETECTED 윋

RESULT

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COMPOUND	4-nitrophenol	2, 4-dinitrophenol	60A 2-methyl-4, 6-dinitrophenol	pentachlorophenol	phenol
EPA	284	39A	\$ 0 \$	64A	63
SCAN					
NPDES	٧ ٧	∳	₹	4 6	10A
RESULT NPDES SCAN	Q	CZ	QN	Q	Š
COMPOUND	2, 4, 6-trichlorophenol	4-chloro-3-methylphenol	2-chlorophenol	2, 4-dichlorophenol	2, 4-dimethylphenol
EPA	21A	22A	244	318	344
SCAN					
NPDES SCAN	114	88 8	2 2 5	% 574	34

SURROGATE RECOVERIES

2-nitrophenol

	d3-pheno!	AS4
48	2, 4, 6-tribromophenol	1114 AS3
19	2-fluorophenol	476 AS2
49	d5-phenol	357 AS1
RESULT	COMPOUND	SCAN CODE

ug/1 unless otherwise specified. SCAN = scan number or retention time on chromatogram AND DEFINITIONS FOR THIS REPORT. All results reported in NOTES

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PAGE 51 RECEIVED: 02/11/86

Analytical Serv

REPORT Results by Sample

Continued From Above LAB # 86-02-058

5000 355500 States

SAMPLE ID reagent blank 625

FRACTION OSC TEST CODE M625 A NAME Method 625 Acid Compounds Date & Time Collected not specified Category

Category

ND = not detected at EPA detection limit method 625, (Federal Register, 11/26/84).

BL = detected in reagent blank; background subtraction not performed.J = estimated value; less than method detection limit.

Minimum detection CONC. FACTOR: Indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

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PAGE 52 RECEIVED: 02/11/86

Analytical Serv REPORT Results by Sample

LAB # 86-02-058

See Secretary Secretary

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FRACTION	
625	
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reagent blank	
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SAMPLE	

FRACTION OSC TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified

	D BY LAK	RESULT	QN	QN	QN	0	QN	6	QN	QN	N	A	CN	N N	an *	A	QV .	B
בים הפנהקטרע	WJL VERIFIED BY FZ COMPOUNDS DETECTED	COMPOUND	N-nitrosodimethylemine	N-nitrosodiphenylamine	N-nitrosodi-n-propylamine	bis(2-ethylhexyl)phthalate	butyl benzyl phthalate	di-butyl phthalate	di-n-octyl phthalate	diethyl phthalate	dimethyl phthalate	benzo(a)anthracene A	benzo(a)pyrene	benzo(b)fluoranthene ∗	benzo(k)fluoranthene *	Chrysene A	acenaphthylene	anthracene E
Specified	YST	EPA	61B	62B	N 859	66B bi	67B	889	69B	70B	718	72B	73B	74B	758	76B	77B	788
101	ANALYST INSTRUMENT	SCAN				0291	•	1326	-	·		·		·	·			
TIECT		NPDES	418	438	42B	138	158	26B	298	24B	258	38	89	78	98	188	28	38
3	98/	<u> </u>	~··	 ~	·	·	 احد	 ~	 -	· ·		 ~		· ·	 ~I	 ~i	 - al	 - Ol
	02/12	RESULT	QN	QN	QN	Q	Z	QN	S	Q	S	Q	QN	QN	QN	Q	QN	Q
nate & limb collected	DATE EXTRACTED <u>02/12/86</u> DATE INJECTED <u>02/27/86</u>	COMPOUND	acenaphthene NI	benzidine	auazu	hexach lorobenzene NE	hexachloroethane NC	ether		nzene	nzene.	nzene	ldine	2, 4-dinitrotoluene NI	2, 6-dinitratoluene NI		fluoranthene	phenyl ether
	DATE EXTRACTED DATE INJECTED	COMPOUND	acenaphthene	benzidine	1, 2, 4-trichlorobenzene	hexachlorobenzene	hexachloroethane	bis(2-chloroethyl)ether	2-chloronaphthalene	1, 2-dichlorobenzene	1, 3-dichlorobenzene	1, 4-dichlorobenzene	3, 3'dichlorobenzidine	2, 4-dinitrotoluene	2, 6-dinitrotoluene	1,2-diphenylhydrazine	fluoranthene	phenyl ether
381- 2 3127	EXTRACTED : INJECTED		thene	idine	auazu		thane	ether		nzene	nzene.	nzene	ldine	nene	nene			ether

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	PAGE 53 RECEIVED: 02/11/86 SAMPLE ID reagent blank 625	Analytical Serv Resu FRACTION Date & T	Serv REP Results by Sample TION OSC TEST	cal Serv REPORT Results by Sample FRACTION OSC TEST CODE M625 B N Date & Time Collected not specified	E M625 B t specifi	LAB # 86-02-058 Continued From Above NAME Method 625 Base/Neutrals ed Category
41B 4-br	4-bromophenyl phenyl	phenyl ether	Q	88	798	benzo(ghi)perylene ND
42B bis(2	-chlorois	bis(2-chloroisopropyl)ether	9	328	808	#1uorene ND
43B bis(2-chloroe	bis(2-chloroethoxy)methane	 달	44B	818	phenanthrene B ND
52B	hexach	hexachlorobutadiene	8	198	828	dibenzo(a, h)anthracene ND
53B hex	achlorocy	hexachlorocyclopentadiene	<u>S</u>	378	838	indeno(1, 2, 3-cd)pyrene ND
54B		isophorone	9	45B	848	ON energe
33B		naphthalene	9			
26B		ni trobenzene	Q			

SURROGATE RECOVERIES

RESULT	d5-nitrobenzene 86	2-fluorobiphenyl 78	d14-terphenyl B2	d10-biphenyl
SCAN CODE	604 BS1	881 BS2	1484 BS3	BS4
90x0x	<u>Privi</u>	2	57 ***	7

NOTES AND DEFINITIONS FOR THIS REPORT.

ND = not detecced at EPA detection limit method 625, (Federal Register, 10/26/84). = benzo(a)anthracene and chrysene co-elute in high concentrations ug/1 unless otherwise specified. * = benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. SCAN = scan number or retention time on chromatogram. All results reported in

RECEIVED: 02/11/86

Results by Sample Analytical Serv

REPORT

LAB # 86-02-058 Continued From Above

SAMPLE ID reagent blank 625

TEST CODE M625 B NAME Method 625 Base/Neutrals Date & Time Collected not specified FRACTION 05C

Category

BL=detected in reagent blank, background subtraction not performed. \mathbf{B} = anthracene and phenanthrene co-elute in high concentrations. J = estimated value: less than method detection limit.

indicates dilution of sample if greater than one (1). limits should be multiplied by conc. factor.

Minimum detection

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REPORT Analytical Serv REPO Results by Sample

LAB # 86-02-058

25255 BESSE

277777

SAMPLE ID reagent blank 625

FRACTION OSC TEST CODE MSNS S NAME GCMS Characterization-ABN Date & Time Collected not specified Category

Category

CHRG # <u>2802038C03</u> SAMPLE SIZE 1

VERIFIED BY LAK

COMPOUND SCAN

No PCBS

DATE ANALYZED 02/27/86

UNITS 44/1

REF CMPD CONF

RESULT

579 2

es, adaggal policido respectativassees, electro especial especial MANAGE MANAGE 23.63.636 **-**84.64646 -125255

PAGE 56 RECEIVED: 02/11/86

Serv REPORT Results by Sample Analytical Serv

LAB # 86-02-058

SAMPLE ID reagent blank 625

FRACTION 05C TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Category Date & Time Collected not specified

ANALYST DATE EXTRACTED 02/12/86 DATE INJECTED 02/27/86 DATA FILE 2CB02058C05 CONC. FACTOR

COMPOUNDS DETECTED OF

1	RESULT	alpha BHC ND	beta BHC ND	gamma BHC ND	delta BHC ND	PCB-1242 ND	PCB-1254 ND	PCB-1221 ND	PCB-1232 ND	PCB-1248 ND	PCB-1260 ND	PCB-1016 ND	toxaphene ND	
1P 89P	COMPOUND	•		G.	•								υ,	
PDES SCAN EPA COMPOUND RESULT NPDES 10P 90P dieldrin ND 3P 6P 91P chlordane ND 4P 7P 92P 4,4'-DDT ND 1BP 9P 94P 4,4'-DDE ND 19P 11P 95P alpha endosulfan ND 20P 14P 95P endosulfan sulfate ND 22P 14P 97P endosulfan sulfate ND 23P 15P 99P endosulfan sulfate ND 23P 15P 99P endtrin aldehyde ND 25P 15P 100P heptachlor epoxide ND 25P		102P	103P	104P	103P	106P	107P	108P	109P	110P	1111	112P	113P	
PDES SCAN EPA COMPOUND 1P 90P dieldrin 4P 90P chlordane 7P 92P 4,4'-DDT 8P 94P 4,4'-DDT 1P 95P 4,4'-DDD 1P 95P 4,4'-DDD 1P 95P alpha endosulfan 14P 95P endosulfan sulfate 14P 98P endosulfan sulfate 15P 98P <td< th=""><th></th><th>22</th><th>e e</th><th>4</th><th>g.</th><th>18P</th><th>19P</th><th>206</th><th>21P</th><th>22P</th><th>23P</th><th>24P</th><th>25P</th><th></th></td<>		22	e e	4	g.	18P	19P	206	21P	22P	23P	24P	25P	
PDES SCAN EPA COMPOUND 1P 90P dieldrin 4P 90P chlordane 7P 92P 4,4'-DDT 8P 94P 4,4'-DDT 1P 95P 4,4'-DDD 1P 95P 4,4'-DDD 1P 95P alpha endosulfan 14P 95P endosulfan sulfate 14P 98P endosulfan sulfate 15P 98P <td< th=""><th>RESULT</th><th>S.</th><th>Q</th><th>Q</th><th>Q.</th><th>Q</th><th>Q</th><th>Q</th><th>Q</th><th>Q N</th><th>Q</th><th>Q</th><th>QV</th><th>Q</th></td<>	RESULT	S.	Q	Q	Q.	Q	Q	Q	Q	Q N	Q	Q	QV	Q
4PDES SCAN EPA 1P 89P 10P 90P 4P 92P 9P 92P 11P 92P 11P 95P 14P 95P 14P 97P 14P 97P 14P 97P 14P 97P 14P 97P 14P 97P		aldrin	dieldrin	chlordane	4, 4'-DDT	4, 4'-DDE	4, 4'~DDD	endosul	endosul	SUIF		aldeh		x o de
4PDES SCAN 1P 1OP 4P 1P 1P 11P 12P 14P 14P 15P 17P 17P	COMP							4	٩	opue		U		hept
4PDES 1PP 1OP 7P 7P 11P 11P 14P 15P 15P	EPA	896	90P	916	92P	93P	94P	95P	496	97P	98P	466	100P	101P
2 280 11 9 7 8 9 11 12 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15														
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RECEIVED: 02/11/86

REPORT Results by Sample Analytical Serv

LAB # 86-02-058 Continued From Above

SAMPLE ID reagent blank 625

FRACTION OSC TEST CODE MS 608 NAME Pesticides & PCBs by GC/MS Date & Time Collected not specified Category

NOTES AND DEFINITIONS FOR THIS REPORT.

SCAN = scan number on chromatogram.

ND = not detected at EPA detection limit method 625, (Federal Register, 12/3/79). All results reported in micrograms/liter unless otherwise specified.

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PAGE 58 RECEIVED: 02/11/86

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

DUP NS DUP NS DUP NS DUP NS

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Serv REPORT NonReported Work Analytical Serv

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specific matrix was not within acceptable limits indicating * Indicates a value less than 5 times the detection limit. CONTACT CONDVER @ Indicates that spike recovery for this analysis on the Second column confirmation performed for EPA 601 on -01, CERTIFIED BY LAB # 86-02-060 Potential error for such low values ranges between Analytical Serv TEST CODES and NAMES used on this report PREPARED Radian Analutical Services Footnotes and Comments **Unknown compound eluting here -03, -05; for EPA 602 on -03. Austin, Texas 78766 Digestion by Method 3020 Digestion by Method 6010 Dil and Grease, Infrared 8501 MoPac Blvd. (512) 454-4797 Box 9948 REPORT an interferent present Hydrocarbons in soi Mercuru, Cold Vapor Selenium, low level 02/27/86 18:08:50 low level EPA Method 601/GC EPA Method 602/GC Chromium, ICPES ead, low level Cadmium, ICPES Barium, ICPES Silver, ICPES P. O. 50 and 100%. Arsenic, B≺ PHOHE ATTEN Analytical Serv 363020 066010 GC 602 GC 601 ONG IR PB GA AS GA HC IR HG CA SE GA BA E CD E SR E FACILITY Carswell AFB (Gen. Dynamics) SAMPLES under separate cover SAMPLE IDENTIFICATION 212-027-27-40 ATTEN Larry French groundwater RECEIVED: 02/11/86 Plant 4 REPORT Radian Austin PLANT4 Fed Ex NR. AM 860142 860143 860145 2 860141 860146 CL IENT COMPANY JORK ID TAKEN TRANS TYPE INVOICE # .O. T **의임임임** 583 2

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PAGE 2 RECEIVED: 02/11/86

Analytical Serv REPORT RESULTS BY TEST

LAB # 86-02-060

TEST CODE	Sample 01	Sample <u>02</u> (entered units)	Sample 03 (entered units)	Sample 04 (entered units)	Sample 05 (entered units)
AG E	<. 002	0.004*	<. 002		<b>*900 '0</b>
AS GA	0.002*	0.007*	0.005*		<. 002
BA S	0.068	0.12	0.021		0.040
E W.	<. 002	0.003*	<. 002		₹. 002
E W.	0.005*	0.034	0.005*		*900 °0
. D63020	02/14/86	02/14/86	02/14/86		02/14/86
D6601	02/14/86	02/14/86	02/14/86		02/14/86
Ser date complete	(1.0	(1.0	<1.0	1.0	
	4. 0002	4. 0002	4. 0002	1/6E	<. 0002
	(1.0	<1.0	<1.0		
PB GA	0.033	0.27	0.040		0.028
SEGA	0.003*	<. 002	₹. 002		₹. 002

FF ZEZECCE FSFEES CONNOCON ESSESS	(

LAB # 86-02-060	NAME EPA Method 601/GC Category	RP VERIFIED BY MCL a COMPOUNDS DETECTED 4	COMPOUND	Trichloroethene 0.93	Dibromochloromethane * 0.42	1, 1, 2-Trichloroethane * ND	cis-1,3-Dichloropropene * ND	2-Chloroethylvinyl Ether ND	Bromoform	1, 1, 2, 2-Tetrachloroethane # ND	Tetrachloroethylene # ND	Chlorobenzene ND	1, 3-Dichlorobenzene ND	1, 2-Dichlorobenzene ND	1, 4-Dichlorobenzene ND					
REPORT Sample	FRACTION OIE TEST CODE GC 601 Date & Time Collected 02/10/86	ANAL YST INSTRUMENT	BCAN	C	4		J			1.1.										
Analytical Serv REP	FRACTION OIE Date & Time Col	G DATE INJECTED 02/12/86	COMPOUND	Chloromethane ND 1	Bromomethane ND	Vingl Chloride ND	Chloroethane ND	Methylene Chloride ND	Trichlorofluoromethane ND (	1,1-Dichloroethene ND	1, 1-Dichloroethane ND	trans-1, 2-Dichloroethene ND	Chloroform 4.25	1,2-Dichloroethane ND	1, 1, 1-Trichloroethane ND	Carbon Tetrachloride ND	Bromodichloromethane 1.87	1, 2-Dichloropropane ND	trans-1,3-Dichloropropene ND 1	
PAGE 3 RECEIVED: 02/11/86	SAMPLE ID 860141	CONC. FACTOR	SCAN						2	58	5	tra	1	1			<b>CI</b>		tran	

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Analytical Serv Results by Sample

LAB # 86-02-060 Continued From Above

**SAMPLE ID 860141** 

FRACTION <u>O1E</u> TEST CODE <u>GC 601</u> NAME EPA Method 601/GC Date & Time Collected <u>02/10/86</u> Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. All results reported in  $\frac{\log IL}{\log L}$  unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1,1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram

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LAB # 86-02-060

REPORT

Analytical Serv

	ID BY MCL.	RESULT	QN	Q	Q.		
NAME EPA Method 602/GC Category	VERIFIE COMPOUNDS DETE	COMPOUND	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene		
TEST CODE <u>6C 602</u>   ected <u>02/10/86</u>	ANALYST	SCAN		1			
CTION OIG	ED <u>02/11/8</u> 6	RESULT	Q	2. 96	Q	Q	
FRA	DATE INJECTI	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorabenzene	
SAMPLE ID 860141	DATA FILE CONC. FACTOR	SCAN	2	<b>7</b> 587			
	FRACTION OIG TEST CODE GC 602 NAME EPA P Date & Time Collected 02/10/86	Date & Time Collected 02/10/86  Date to Time Collected 02/10/86  Date to Time Collected 02/10/86  Category  Category  Category  INSTRUMENT  ANALYST  COMPOUNDS DETECTED  COMPOUNDS DETECTED	Date & Time Collected 02/10/86  Date & Time Collected 02/10/86  Date & Time Collected 02/10/86  Category  ANALYST  ANALYST  ANALYST  COMPOUND  COMPOUND  COMPOUND  RESULT  SCAN  COMPOUND  RESULT  SCAN  COMPOUND  RESULT  SCAN  COMPOUND  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RESULT  RES	AMPLE ID 860141  Date & Time Collected 02/10/86  Date to Time Collected 02/10/86  Category  Date to Time Collected 02/10/86  Category  Compound Result scan compound Result scan compound Res	Date & Time Collected 02/10/86  Date & Time Collected 02/10/86  Category  ANALYST  ANALYST  COMPOUND  RESULT SCAN  COMPOUND  RESULT SCAN  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene  Toluene	PATPLE ID 860141  BATE INJECTED 02/11/86  Date & Time Collected 02/10/86  Date & Time Collected 02/10/86  Date & Time Collected 02/10/86  Date & Time Collected 02/10/86  Category  ANALYST  ANALYST  ANALYST  ANALYST  ANALYST  ANALYST  ANALYST  COMPOUND  Benzene  Benzene  ND ! 1.4-Dichlorobenzene  1.2-Dichlorobenzene  1.2-Dichlorobenzene	PRACTION OLG   TEST CODE 6C 602 NAME   EPA Method 602/GC

SCAN = scan number or retention time on chromatogram. NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in  $\frac{ug/L}{L}$  unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79). All results reported in __

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LAB # 86-02-060

REPORT

Analytical Serv

0. 72 RESULT 0.93 COMPOUNDS DETECTED VERIFIED BY Trichlorosthene 2-Chloroethylvinyl Ether Bromoform Chlorobenzene 1, 3-Dichlorobenzene 1, 4-Dichlorobenzene 1, 2-Dichlorobenzene NAME EPA Method 601/GC Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene 1, 1, 2, 2-Tetrachloroethane Tetrach loroethy lene Category COMPOUND HCL TEST CODE GC 601 Date & Time Collected 02/10/86 **ANALYST** INSTRUMENT SCAN Results by Sample DATE INJECTED 02/13/86 FRACTION OZE 윋 9 月 月 0.74 2 2 3.79 윋 月 2 윋 밁 RESULT 1.81 Chloromethane Chloroform Vinyl Chloride Methylene Chloride Trichlorofluoromethane 1, 1-Dichloroethane trans-1, 2-Dichloroethene 1, 2-Dichloroethane Carbon Tetrachloride 1,2-Dichloropropane Bromome thane Chloroethane 1, 1-Dichloroethene 1, 1, 1-Trichloroethane **Bromodichloromethane** trans-1, 3-Dichloropropene COMPOUND 9 PAGE 6 RECEIVED: 02/11/86 **SAMPLE 1D 860142** DATA FILE CONC. FACTOR SCAN 588 2

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PAGE 7 RECEIVED: 02/11/86

Analytical Serv REPO Results by Sample

LAB # 86-02-060 Continued From Above

SAMPLE ID 860142

FRACTION OZE TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/10/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute All results reported in  $\frac{\sqrt{4/L}}{\sqrt{4/L}}$  unless otherwise specified. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1.1,2,2—tetrachloroethane and tetrachloroethylene co-elute. SCAN = scan number or retention time on chromatogram.

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LAB # 86-02-060

REPORT

Analytical Serv

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Results by Sample

RESULT VERIFIED BY COMPOUNDS DETECTED NAME EPA Method 602/GC 1. 4-Dichlorobenzene 1. 3-Dichlorobenzene 1, 2-Dichlorobenzene Category COMPOUND FRACTION 026 TEST CODE GC 602 Date & Time Collected 02/10/86 ANAL YST INSTRUMENT SCAN DATE INJECTED 02/12/86 2 REBULT 0.90 Ethyl Benzene Chlorobenzene Benzene COMPOUND Toluene SAMPLE 1D 860142 DATA FILE CONC. FACTOR SCAN 590

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SCAN = scan number or retention time on chromatogram AND DEFINITIONS FOR THIS REPORT. NOTES

<u>uq/L</u> unless otherwise specified. All results reported in

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79)

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밀 밁 2 S Z 2 0.17 2 VERIFIED BY MCL RESULT 6.40 COMPOUNDS DETECTED Trichloroethene Bromoform 1, 4-Dichlorobenzene 2-Chloroethylvinyl Ether Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene NAME EPA Method 601/GC 1, 1, 2, 2-Tetrachloroethane Tetrachloroethylene Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene LAB # 86-02-060 Category COMPOUND 뮙 TEST CODE GC 601 Date & Time Collected 02/10/86 INSTRUMENT ANALYST REPORT SCAN Results by Sample DATE INJECTED <u>02/13/86</u> 9 2 9 S 月 2 9 2 2 2 2 2.07 FRACTION 03E trans-1,2-Dichloroethene 0,15** RESULT Analytical Serv Chloroform 1, 2-Dichloroethane 1, 1, 1-Trichloroethane trans-1, 3-Dichloropropene Ch loromethane Bromomethane Vinyl Chlcride Ch loroethane Methylene Chloride **Trichlorofluoromethane** 1, 1-Dichloroethene 1, 1-Dichloroethane Carbon Tetrachloride **Bromodichloromethane** 1, 2-Dichloropropane COMPOUND 0 PAGE 9 RECEIVED: 02/11/86 SAMPLE 1D 860143 DATA FILE CONC. FACTOR SCAN 591 2

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REPORT Results by Sample Analytical Serv

LAB # 86-02-060 Continued From Above

**SAMPLE ID 860143** 

FRACTION 03E TEST CODE GC 601 NAME EPA Method 601/GC Date & Time Collected 02/10/86

Category

NOTES AND DEFINITIONS FOR THIS REPORT

*Dibromochloromethane, 1,1,2-trichloroethane and cis-1,3-dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1, 1, 2, 2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in

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VERIFIED BY MCL COMPOUNDS DETECTED FRACTION 036 TEST CODE GC 602 NAME EPA Method 602/GC 1, 4-Dichlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene LAB # 86-02-060 Category COMPOUND RP Date & Time Collected 02/10/86 ANALYST INSTRUMENT SCAN REPORT Results by Sample DATE INJECTED 02/12/86 S 밁 RESULT 10.4 Analytical Serv Ethyl Benzene COMPOUND Benzene Tolvene ECEIVED: 02/11/86 SAMPLE 1D 860143 DATA FILE CONC. FACTOR SCAN PAGE 11 593

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AND DEFINITIONS FOR THIS REPORT. NOTES

SCAN = scan number or retention time on chromatogram.

Chlorobenzene

ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79). ug/L unless otherwise specified. All results reported in

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COMPOUNDS DETECTED VERIFIED Trichloroethene Bromoform 2-Chloroethylvinyl Ether Chlorobenzene 1, 3-Dichlorobenzene 1, 2-Dichlorobenzene 1, 4-Dichlorobenzene NAME EPA Method 601/GC 1, 1, 2, 2-Tetrachloroethane **Tetrachloroethylene** Dibromoch loromethane 1, 1, 2-Trichloroethane cis-1, 3-Dichloropropene LAB # 86-02-060 Category COMPOUND 밁 TEST CODE GC 601 Date & Time Collected 02/10/86 ANAL YST INSTRUMENT SCAN REPORT Results by Sample DATE INJECTED 02/13/86 FRACTION 05B 2 윋 밁 9 月 呈 일 뮏 밁 밁 밁 윋 8. 48** RESULT Analytical Serv trans-1, 2-Dichloroethene Chloroform Chloromethane Vinyl Chloride Chloroethane 1, 1-Dichloroethane Carbon Tetrachloride Methylene Chloride **Trichlorofluoromethane** 1, 1-Dichloroethene 1, 2-Dichloroethane 1, 1, 1-Trichloroethane Bromomethane COMPOUND O RECEIVED: 02/11/86 **SAMPLE ID 860146** DATA FILE CONC. FACTOR SCAN 594 2

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1, 2-Dichloropropane

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**Bromodichloromethane** 

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trans-1, 3-Dichloropropene

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REPORT Analytical Serv REPU Results by Sample

LAB # 86-02-060 Continued From Above

**SAMPLE ID 860146** 

FRACTION 05B TEST CODE GC 601 Date & Time Collected 02/10/86

NAME EPA Method 601/GC Category

NOTES AND DEFINITIONS FOR THIS REPORT.

*Dibromochloromethane, 1,1,2—trichloroethane and cis—1,3—dichloropropene co-elute. ND = not detected at EPA detection limit method 601, (Federal Register, 12/3/79). #1, 1, 2, 2—tetrachloroethane and tetrachloroethylene co-elute. ug/L unless otherwise specified. SCAN = scan number or retention time on chromatogram All results reported in_

> 595 2

			D BY MCL	RESULT	QN	Q	QN	
	LAB # 86-02-060	FRACTION OSD TEST CODE GC 602 NAME EPA Method 602/GC Date & Time Collected 02/10/86	VERIFIED BY  4 COMPOUNDS DETECTED	COMPOUND	1,4-Dichlorobenzene	1, 3-Dichlorobenzene	1,2-Dichlorobenzene	
	REPORT Sample	TEST CODE GC 602	ANALYBT INSTRUMENT	SCAN		•		
	Serv REPI Results by Sample	TION OSD & Time Co.	0 02/12/86	RESULT	- GN	13	Q	Q
Z 0 -	Analytical	FRAC	DATE INJECTED <u>02/12/86</u>	COMPOUND	Benzene	Toluene	Ethyl Benzene	Chlorobenzene
1014 10 1 10 1 10 1 10 1 10 1 10 1 10 1	PAGE 14 RECEIVED: 02/11/86	SAMPLE ID 860146	DATA FILE CONC. FACTOR	SCAN		<b>2</b> 596		

SOCIETATION SECOND BONDS

NOTES AND DEFINITIONS FOR THIS REPORT.

All results reported in <u>vg/L</u> unless otherwise specified. ND = not detected at EPA detection limit method 602, (Federal Register, 12/3/79).

RECEIVED: 02/11/86

Serv REPORT NonReported Work FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE DUP NS DUP NS DUP NS 01D 02D 03D DUP 602 DUP 602 DUP 602 DUP 602 01H 02H O3H OSE DUP601 DUP601 DUP601 DUP601 PAGE 15

01F 02F

03F 03C

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### MEMORANDUM

08 September 1986

RC No. 212-027-27-02

TO:

Debra Richmann

FROM:

Neal Amick Mank Ma

SUBJECT: Analysis of Soil and Water Samples for Methyl Ethyl Ketone - Air

Force Plant #4

Soil and water samples were analyzed for MEK by EPA SW-846 Method 8015. A list of the samples and the results are presented in Table 1. Water samples were analyzed by direct injection into a gas chromatograph equipped with a flame ionization detector. The soil sample was analyzed by extracting with carbon disulfide and injecting an aliquot of the extract into the gas chromatograph.

For each day of analysis, a three-point calibration curve was determined by carefully preparing standard solutions of known concentrations. A quality control sample was independently prepared and analyzed to ensure accurate quantitation. The quality control sample was analyzed to be within 10% of the expected results for each day of analysis.

The extraction efficiency for the soil analysis was checked by spiking an aliquot of the soil with MEK and analyzing. A recovery of 89% was obtained. No sample had MEK concentrations above the minimum detection level, which was 1.0 ug/mL for the water samples and 1.0 ug/g for the soil samples.

The instrument parameters were set as follows:

Instrument:

Tracor 560 with FID

Column:

1% SP1000 on Carbopack B, 6' x 2 mm I.D.

Carrier Flow:

N₂ at 20 cc/minute

Oven Temperature:

80°C programmed to 150°C at 10°C/minute



### TABLE 1. ANALYTICAL RESULTS FOR METHYL ETHYL KETONE - AIR FORCE PLANT #4

### A. Water Samples

Sample I.D.		Results (ug/mL
860129A	HM - 74	<1.0
860129B	HM - 74	<1.0
860168A	HM - 72	<1.0
860168B	HM - 72	<1.0
860173A	HM - 75	<1.0
860173B	HM - 75	<1.0
860199A	HM - 73	<1.0
860199B	HM - 73	<1.0

### B. Soil Samples

Sample I.D.		Results (ug/g)
860019	HM - 106A	<1.0
860021A	HM - 106C	<1.0
860021B	HM - 106C	<1.0

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